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ANNUAL REPORT
OF
The Boston City Hospital
BOSTON, MASS.



1916-17

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1916-17



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City Hospital

FIFTY-THIRD ANNUAL REPORT
OF
THE TRUSTEES
OF
THE BOSTON CITY HOSPITAL
INCLUDING THE
REPORT OF THE SUPERINTENDENT
UPON THE
HOSPITAL PROPER
THE SOUTH DEPARTMENT FOR INFECTIOUS DISEASES
THE HAYMARKET SQUARE RELIEF STATION
THE EAST BOSTON RELIEF STATION
THE CONVALESCENT HOME AT DORCHESTER
THE WEST DEPARTMENT
AND ALSO THE
HOUSE RULES, WITH RULES FOR ADMISSION, DISCHARGE
AND GOVERNMENT OF PATIENTS, ETC.
FOR THE FIFTY-THIRD YEAR
FEBRUARY 1, 1916, TO JANUARY 31, 1917, INCLUSIVE



CITY OF BOSTON
PRINTING DEPARTMENT
1917

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City Hospital
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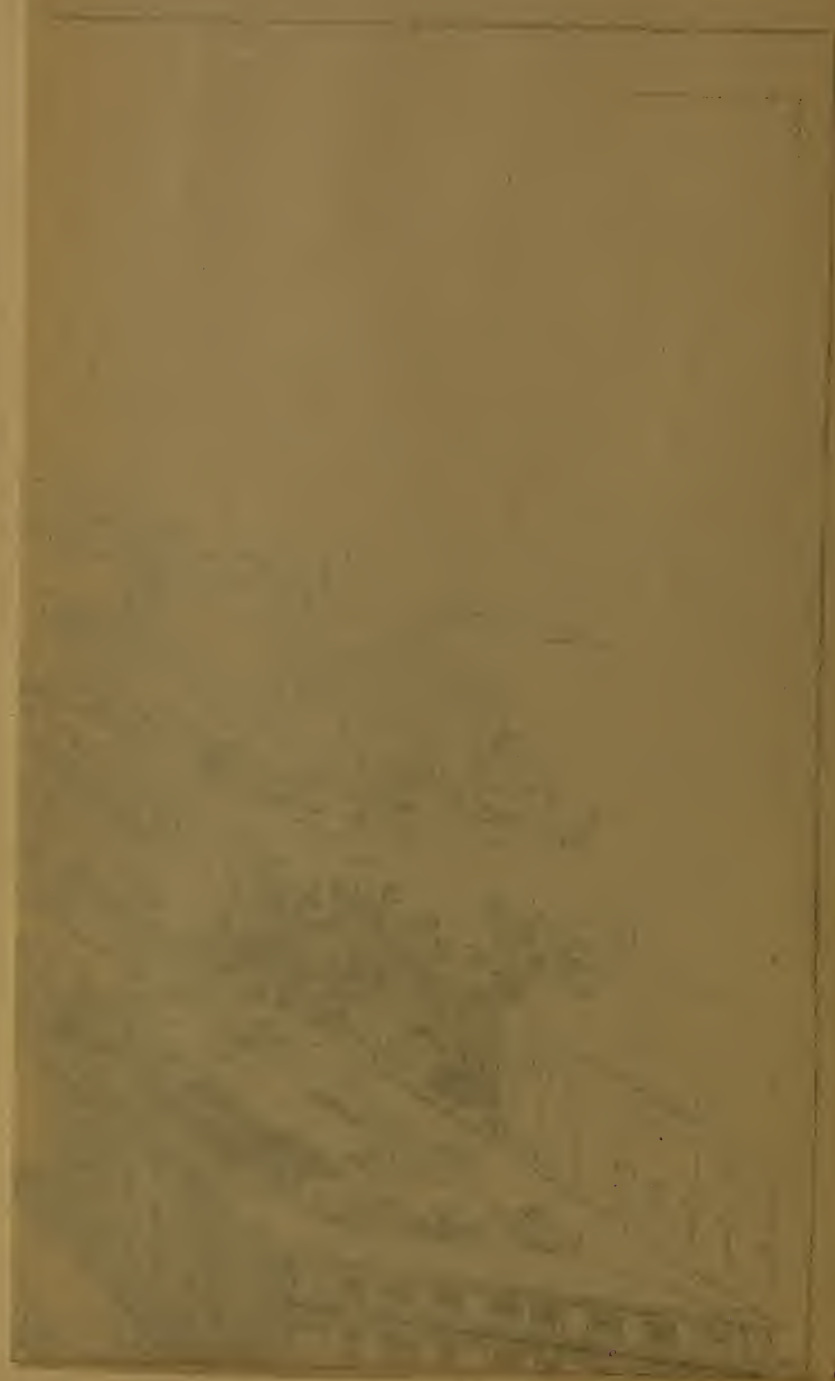
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THE
BOSTON CITY HOSPITAL
1917

TRUSTEES
A. SHUMAN, PRESIDENT
JOSEPH P. MANNING, SECRETARY
CONRAD J. RUETER
THOMAS A. FORSYTH
HENRY S. ROWEN, M. D.

JAMES M. CURLEY
MAYOR



FIFTY-THIRD ANNUAL REPORT

OF THE

TRUSTEES

OF

THE BOSTON CITY HOSPITAL

WITH

REPORT OF THE SUPERINTENDENT

THE HOUSE RULES, WITH RULES FOR ADMISSION, DIS-
CHARGE AND GOVERNMENT OF PATIENTS, ETC.

FOR THE

FIFTY-THIRD YEAR, FEBRUARY 1, 1916, TO
JANUARY 31, 1917, INCLUSIVE.

TRUSTEES.

A. SHUMAN, <i>President</i>	Term expires in 1920.
JOSEPH P. MANNING, <i>Secretary</i>	Term expires in 1921.
CONRAD J. RUETER	Term expires in 1918.
THOMAS A. FORSYTH	Term expires in 1919.

MEDICAL AND SURGICAL STAFF.

Consulting Physicians and Surgeons.

Edward H. Bradford, M. D.	Francis S. Watson, M. D.
Vincent Y. Bowditch, M. D.	Thos. Amory DeBlois, M. D.
Abner Post, M. D.	George H. Monks, M. D.
Hayward W. Cushing, M. D.	Morton Prince, M. D.
Elliott P. Joslin, M. D.	

Consulting Pathologist.

William T. Councilman, M. D.

Consultant in Tropical Diseases.

Richard P. Strong, M. D.

Curator of the Hospital Museum.

Abner Post, M. D.

Superintendent and Medical Director.

John J. Dowling, M. D.

Senior Physicians.

John G. Blake, M. D.	| G. B. Shattuck, M. D.
Francis H. Williams, M. D.	

Visiting Physicians.

Henry Jackson, M. D.	| Wm. H. Robey, Jr., M. D.
George G. Sears, M. D.	| Ralph C. Larrabee, M. D.
John L. Ames, M. D.	| Franklin W. White, M. D.

First Assistant Visiting Physicians.

Edwin A. Locke, M. D.	| Edward N. Libby, M. D.
Francis W. Palfrey, M. D.	

Second Assistant Visiting Physicians.

Cadis Phipps, M. D.	| Martin J. English, M. D.
Harold W. Dana, M. D.	| William R. Ohler, M. D.
Thomas J. O'Brien, M. D.	| Edmund F. Walsh, M. D.
Albert A. Hornor, M. D.	| Horace Gray, M. D.
Harold Bowditch, M. D.	| Roland A. Behrman, M. D.

Assistant to the Visiting Physicians.

* Joseph M. Lynch, M. D.

* Appointed for six months beginning November 10, 1916.

Senior Surgeon.

George W. Gay, M. D.

Surgeons-in-Chief.

Paul Thorndike, M. D.	|	Fred B. Lund, M. D.
John Bapst Blake, M. D.	|	Edward H. Nichols, M. D.
Howard A. Lothrop, M. D.		

Visiting Surgeons.

Frederic J. Cotton, M. D.	|	Joshua C. Hubbard, M. D.
William E. Faulkner, M. D.	|	L. R. G. Crandon, M. D.
David D. Scannell, M. D.		

First Assistant Visiting Surgeons.

Horace Binney, M. D.	|	Frank H. Lahey, M. D.
J. H. Cunningham, Jr., M. D.	|	Albert Ehrenfried, M. D.
Halsey B. Loder, M. D.		

Out-Patient Surgeons.

Irving J. Walker, M. D.	|	Robert C. Cochrane, M. D.
Arthur R. Kimpton, M. D.	|	Otto J. Hermann, M. D.
Somers Fraser, M. D.		

Assistants to the Out-Patient Surgeons.

Francis F. Henderson, M. D.	|	MacIver Woody, M. D.
Herbert H. Howard, M. D.	|	James J. Hepburn, M. D.

Anæsthetists.

John E. Butler, M. D.	|	Nathaniel N. Morse, M. D.
Frank L. Richardson, M. D.	|	Lincoln F. Sise, M. D.

Dentists.

Joseph A. Ring, D. M. D.	|	James E. Cox, D. M. D.
--------------------------	--	------------------------

Senior Surgeon for Diseases of Women.

Charles M. Green, M. D.

Junior Visiting Surgeon for Diseases of Women.

Ernest B. Young, M. D.

First Assistant Visiting Surgeon for Diseases of Women

Nathaniel R. Mason, M. D.

Second Assistant Visiting Surgeon for Diseases of Women.

Robert M. Green, M. D.

Third Assistant Visiting Surgeons for Diseases of Women.

John T. Williams, M. D. | Frederick L. Good, M. D.

Fourth Assistant Visiting Surgeon for Diseases of Women.

Leo V. Friedman, M. D.

Visiting Ophthalmic Surgeon.

JOHN C. BOSSIDY, M. D.

*Ophthalmic Surgeons.*Allen Greenwood, M. D. | Edward R. Williams, M. D.
Henry B. Stevens, M. D.*Assistants to the Ophthalmic Surgeons.*Frederick N. Stephens, M. D. | Jeremiah J. Corbett, M. D.
L. Colby Rood, M. D.

Senior Surgeon for Diseases of Ear and Throat.

George A. Leland, M. D.

Visiting Surgeon for Diseases of Ear and Throat.

Edgar M. Holmes, M. D.

*Surgeons for Diseases of Ear and Throat.*Rockwell A. Coffin, M. D. | Charles R. C. Borden, M. D.
George L. Vogel, M. D.

Assistant Surgeons for Diseases of Ear and Throat.

Henry Tolman, Jr., M. D.	Louis M. Freedman, M. D.
John H. Blodgett, M. D.	Robert J. Kiscock, M. D.
Calvin B. Faunce, Jr., M. D.	William T. Haley, M. D.

Visiting Physicians for Diseases of the Nervous System.

Philip Coombs Knapp, M. D.	| John J. Thomas, M. D.
Arthur W. Fairbanks, M. D.	

First Assistant Visiting Physicians for Diseases of the Nervous System.

Isador H. Coriat, M. D.	| William J. Daly, M. D.
-------------------------	------------------------

Second Assistant Visiting Physicians for Diseases of the Nervous System.

LeRoy A. Luce, M. D.	| Hale Powers, M. D.
----------------------	--------------------

Temporary Assistant to the Visiting Physicians for Diseases of the Nervous System.

* Earle H. MacMichael, M. D.

Physician for Physical Therapeutics.

Frank B. Granger, M. D.

Assistants to the Physician for Diseases of the Skin.

Townsend W. Thorndike, M. D.	| William P. Boardman, M. D.
George P. Howe, M. D.	

Pathologist.

F. B. Mallory, M. D.

Physician for Infectious Diseases.

Edwin H. Place, M. D.

Physician for X-Ray Service.

Samuel W. Ellsworth, M. D.

Assistant Physician for X-Ray Service.

Paul F. Butler, M. D.

Consultant in Vaccine and Serum Therapy.

George P. Sanborn, M. D.

Advisory Staff, South Department.

George W. Gay, M. D.

George A. Leland, M. D.

John G. Blake, M. D.

F. B. Mallory, M. D.

Physicians to the Convalescent Home.

John P. Treanor, M. D.

Henry F. R. Watts, M. D.

Bradford Kent, M. D.

HOUSE OFFICERS.

House Physicians.

House Surgeons.

(For four months ending March 20, 1916.)

Myer I. Berman.

John P. Byrnes.

Benjamin P. Burpee.

Alfred K. Bates, Jr.

Hyman Green.

Ivan R. Burket.

William R. Ohler.

Donald Munro.

Sumner C. Andrews (Substitute).

(For four months ending July 17, 1916.)

Joseph H. McGuire.

Marcellus Bronk.

Samuel Cline.

Pierce H. Leavitt.

Harry B. Levine.

George W. Bachman.

William R. Redden.

Howard M. Clute.

Bernard F. Devine.

*House Physicians.**House Surgeons.*

(For four months ending November 20, 1916.)

Louis F. Salerno.	Carl B. Hudson.
Joseph M. Lynch.	Joseph H. Shortell.
Harry B. Levine (Substitute).	Edward King.
Charles W. Bressler.	Reginald D. Margeson.
	Bernard L. Plouffe.

(For four months beginning November 6, 1916.)

John A. Foley.	Samuel R. Meaker.
Nahum R. Pillsbury.	Edward B. Allen.
Abraham C. Silverman.	Edward M. Hodgkins.
Henry A. Bunker, Jr.	George A. Murray.
	Norman W. Gillespie.

Gynæcological House Surgeons.

(For four months ending March 20, 1916.)

Joseph P. Cohen.

(For four months ending July 17, 1916.)

Reginald D. Margeson.

(For four months ending November 20, 1916.)

Fabyan Packard.

(For four months beginning November 6, 1916.)

John N. Woodside.

House Surgeons in the Ophthalmic and Aural Service.

(For six months ending July 17, 1916.)

Roger I. Clapp.

(For six months ending January 15, 1917.)

Charles J. C. Gillon.

(For six months beginning January 1, 1917.)

Charles E. Magoun.

House Physicians in the Neurological and Dermatological Service.

(For four months ending March 6, 1916.)

Israel E. Rudman.

(For four months ending July 3, 1916.)

Gordon D. Atkinson.

House Physicians in the Neurological and Dermatological Service.

(For four months ending November 6, 1916.)

John J. Carroll.

(For four months beginning November 6, 1916.)

John J. Carroll (Substitute).

Pathological Senior Internes.

(For six months ending July 3, 1916.)

Frederic D. Jones.

(For six months ending January 1, 1917.)

John H. Waite.

(For six months beginning January 1, 1917.)

Sze-jen Shen.

*Senior Medical Internes.**Senior Surgical Internes.*

(For four months beginning November 6, 1916.)

Guy M. Parkhurst.

Eugene M. Gale.

Max Silverman.

Cassell C. Tucker.

John G. Downing.

William C. R. Hurley.

Paul Withington.

John Duff, Jr.

Carl Bearce.

Gynæcological Senior Interne.

(For four months beginning November 6, 1916.)

Lawrence A. Betteridge.

Neurological Interne.

(For four months beginning November 6, 1916.)

Reuben C. Clinkscales.

Accident Room House Officers.

(For four months beginning November 6, 1916.)

William F. Cotting.

| George W. Papen.

*Junior Medical Internes.**Junior Surgical Internes.*

(For four months beginning November 6, 1916.)

Manuel F. Cunha.

Launcelot C. Goffin.

Nathan A. Bolotow.

Maurice T. Briggs.

| Arthur F. Sargent.

| Paul R. Withington.

| Carl T. Harris.

| Clarence H. Hyman.

| Hugh F. Lena.

Pathological Junior Interne.

(For six months beginning January 1, 1917.)

Frank G. Norbury.

Gynæcological Junior Interne.

(For four months beginning November 6, 1916.)

Jacob Applebaum.

Aural Junior Interne.

(For six months beginning January 1, 1917.)

Howard E. Settle.

Medical Externes.

(For four months beginning November 6, 1916.)

Reuben L. Leverton.

Benjamin W. Rudman.

Avery H. Sarno.

Harry A. Nissen.

Surgical Externes.

Robert Slater.

Frank W. Hodgdon.

William B. Young.

Herbert C. Ober.

Andrew Nichols, III.

Ophthalmic and Aural Externe.

(For six months beginning January 1, 1917.)

Edmund J. Butler.

Neurological and Dermatological Externe.

(For four months beginning November 6, 1916.)

Lewis W. Johnson.

Gynæcological Surgical Dresser.

(For four months beginning November 6, 1916.)

Harry Fein.

HOSPITAL OFFICERS.

John J. Dowling, M. D., *Superintendent and Medical Director.*Edmund W. Wilson, M. D., *Assistant Superintendent and First Executive.*James W. Manary, M. D., *First Executive Assistant.*Walter T. Garfield, M. D., *Second Executive Assistant.*Joseph H. Shortell, M. D., *Resident Surgeon.*

George E. Allen, M. D., *Third Executive Assistant.*
 John A. Foley, M. D., *Night Executive Assistant.*
 F. B. Mallory, M. D., *Pathologist.*
 S. Burt Wolbach, M. D., *Assistant Pathologist.*
 Edgar M. Medlar, M. D., *Second Assistant Pathologist.*
 Leroy U. Gardner, M. D., *Research Assistant in Pathology.*
 Ward H. Cook, M. D., *First Assistant in Pathology.*
 Frank B. Berry, M. D., *Acting Second Assistant in Pathology.*
 Charles L. Overlander, M. D., *Assistant in Clinical Pathology.*
 Samuel W. Ellsworth, M. D., *Physician for X-Ray Service.*
 Paul F. Butler, M. D., *Assistant Physician for X-Ray Service.*
 John Ferrin, *Chief Apothecary.*
 Miss Leonie M. Corcoran, *Registrar.*
 Miss Emma M. Nichols, *Superintendent of Nurses and Matron.*
 Miss Mary Alice McMahon, *First Assistant Superintendent of Nurses.*
 Miss Margaret J. Fallon, *Second Assistant Superintendent of Nurses.*
 Miss Frances E. Morley, *Instructor of Nurses.*
 Mrs. Anna C. Davie, *Instructor of Probationers.*
 Miss Mary C. Kingston, *Instructor in Obstetrical Nursing.*
 Miss Della M. Currier, *Night Supervisor of Nurses.*
 Miss Mary A. Douglass, *Assistant Matron.*

SOUTH DEPARTMENT.

John J. Dowling, M. D., *Medical Director.*
 Edwin H. Place, M. D., *Physician-in-Chief.*
 Eli Friedman, M. D., *Assistant Physician.*
 James A. Keenan, M. D., *Assistant Physician.*
 Hiram H. Amiral, M. D., *Assistant Physician.*
 Miss Ursula C. Noyes, *Assistant Superintendent of Nurses and Matron.*

House Officers.

(For four months beginning November 6, 1916.)

Harris E. Powers.	| Louis J. Ullian.
John H. Cauley.	| James J. Putnam, Jr.

HAYMARKET SQUARE RELIEF STATION.

John G. Breslin, M. D., *Acting Resident Surgeon.*
 Bernard F. Devine, M. D., *Acting Resident Surgeon.*
 Miss Rose F. Moran, *Matron.*

HAYMARKET SQUARE RELIEF STATION.

House Officers.

(For four months beginning November 6, 1916.)

Arthur L. Kinne. | Wilbert C. Hardy.
Theodore H. Aschmann.

EAST BOSTON RELIEF STATION.

Joseph G. Hegarty, M. D., *Resident Surgeon.*

Carl B. Hudson, M. D., *Acting Resident Surgeon.*

Miss Emma G. Cunningham, *Matron.*

CONVALESCENT HOME.

Miss Elizabeth C. Fairbank, *Matron.*

REPORT OF THE TRUSTEES.

BOSTON, February 1, 1917.

HON. JAMES M. CURLEY,

Mayor of the City of Boston:

SIR,—In compliance with the ordinances, the trustees of the Boston City Hospital present the following report of its condition for the year ending January 31, 1917. This is the fifty-third annual report of the Hospital Department, which consists of the main hospital, the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station, the Convalescent Home in Dorchester and the West Department (as yet unopened).

The Board of Trustees was organized on May 1, 1916, by election of Mr. A. Shuman as president and Mr. Joseph P. Manning as secretary.

In April, 1916, Mr. Joseph P. Manning was reappointed a trustee for the term ending April 30, 1921.

In November, 1916, Francis J. Keaney, M. D., Trustee, also Physician for Diseases of the Skin, died suddenly. The resolutions of the Board of Trustees upon this sad event are recorded upon another page.

EXPENDITURES.

The entire expenditures for all departments of the hospital for maintenance during the fiscal year were \$798,553.87. Of the amount spent for maintenance, \$355,873.94 was expended upon personal service (see Table No. 1); \$34,151.57 upon service other than personal; \$50,986.39 upon equipment; \$340,734.47 upon supplies; \$16,077.70 upon materials; \$729.80 upon special items, such as workingmen's compensation.

From the amount expended, \$798,553.87, there should be deducted the difference in the amount of stock on

hand February 1, 1917, which was \$20,650 more than on January 31, 1916, making the total amount properly chargeable as the expenditures for maintenance of all departments for the year \$777,903.87. By deducting \$85,445.26 (the carefully estimated cost of the various out-patient departments) we get \$692,458.61 as the gross cost of all ward patients. This sum was expended for 46,136 weeks' board of patients, at a cost per capita of \$15.01 per week, or \$2.14 $\frac{3}{7}$ per day.

If we deduct the money collected for paying patients, interest on trust funds and other income, the net cost to the city per capita per week was \$11.62, or \$1.66 per day.

The cost of subsistence supplies was \$194,346.08; the total weeks' board for an average of 1,590 persons was 83,125. This gives a cost per person for uncooked food supplies of \$2.34 per week, or 33 $\frac{3}{7}$ cents per day.

PAYING PATIENTS.

During the year there has been collected for the care and treatment of patients of all classes the sum of \$150,825.10, itemized as follows: There was received from the Commonwealth of Massachusetts for the board of patients at the hospital proper, \$39,081.76; at the South Department, \$1,527.86; from various cities and towns, for hospital proper, \$22,162.35; collected at the superintendent's office, on account of private room, ward and Out-Patient Department paying patients, \$46,522.30, of which \$3,487.27 was from insurance cases, and \$113.40 from orthopedic appliances; for board of paying patients at the South Department, \$4,181.03; on account of ward and Out-Patient Department paying patients at the Haymarket Square Relief Station, \$1,085.68, of which \$875.51 was from insurance cases; on account of ward and Out-Patient Department paying patients at the East Boston Relief Station, \$798.22, \$524.07 of this being from insurance cases. There has also been collected for the hospital, by the Board of Health, for the care of infectious cases at the South

Department, and paid to the City Collector, the additional sum of \$35,465.90.

The following is a tabular statement of the income from paying patients:

FEBRUARY 1, 1916, TO JANUARY 31, 1917, INCLUSIVE.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Totals.
Collected at the hospital:					
From the state.....	\$39,081.76	\$1,527 86			\$40,609 62
From cities and towns.....	22,162 35				22,162 35
From ward and private room patients.....	42,921 63	4,181 03	\$210 17	\$274 15	47,586 98
From insurance cases:					
House cases, including X- ray cases.....	2,210 77		13 01	13 57	2,237 35
Out-patient cases.....	1,276 50		862 50	510 50	2,649 50
From orthopedic cases.....	113 40				113 40
Totals.....	\$107,766 41	\$5,708 89	\$1,085 68	\$798 22	\$115,359 20
Collected by Board of Health for contagious cases.....		35,465 90			35,465 90
Totals.....	\$107,766 41	\$41,174 79	\$1,085 68	\$798 22	\$150,825 10

The revenue was increased \$11,347.60 by X-ray charges, Salvarsan treatment, removal of tonsils and adenoids and issuing of certificates.

A table showing the revenue received from paying patients, interest on trust funds, sale of old material and other sources, will be found on page 61 of the superintendent's report.

The wisdom of purchasing six Ford ambulances has, in the short time that they have been in operation, been demonstrated. The chassis have lengthened out to 136 inches, with oversize rims, shock absorbers and odometers. The bodies were made of paper board, heated from the exhaust, electric lighted, with driver's seat

inclosed. The patients ride much more comfortably than in the type formerly in use.

X-RAY DEPARTMENT.

During the past year the facilities of the X-Ray Department have been greatly improved by the subdivision of two of the rooms by means of lead protected partitions and by the rearrangement of the apparatus, thus securing more working space and greater efficiency from the equipment. A special room has been provided for cystoscopic examinations as well as better accommodations for dressing rooms. A nurse also has been detailed to assist in preparing the patients for examination during the morning clinic.

New apparatus has been purchased as follows: Three Kelly-Koet tube stands, four Edwards intensifying screens, three Coolidge tubes, one filament transformer for Coolidge tube, two hydrogen gas tubes.

These improvements and additions to the department have shown results which are most gratifying both in the quality and the amount of the work done, and have enabled the increasing number of patients to be served with a greater efficiency than at any time in the past and with corresponding satisfaction to all concerned.

An X-ray room has been fitted up at the Haymarket Square Relief Station to meet the need of immediate X-ray plates for the diagnosis and proper treatment of fractures. This apparatus is operated by a graduate nurse who was instructed in its use, and is already proving a valuable addition to the Relief Hospital.

The following table indicates the work for the year 1916-17:

Number of photographs taken	12
Number of dental films	411
Number of fluoroscopic examinations	345
Number of gastro-intestinal examinations	680
Number of X-ray and radium treatments	1,124

Total number of patients examined	12,536
Total attendance of patients	13,660
Total number of negatives taken	24,285
Visits of out-patients	8,349
Visits of house patients	5,311

DEPARTMENT FOR VACCINE AND SERUM THERAPY.

The work of this department has been carried on with painstaking assiduity.

The total number of patients receiving bacterial vaccines was 352; number of visits to this clinic, 2,562; number of vaccine inoculations, 2,348. The total number of patients under anti-syphilitic treatment was 526. Number of cases of syphilis of the central nervous system treated by intradural injection of Salvarsanized serum or under observation, 146. The number of Salvarsan injections was 1,041; mercury injections, 482; number of intradural treatments, 445; blood taken for Wassermann and Schwartz tests, 471. Total number of recorded cases under observation and treatment, 1,130.

PATHOLOGICAL LABORATORY.

The work of the Pathological Laboratory during the past year can be briefly summarized. The epidemic of anterior poliomyelitis has made available post-mortem material from over thirty cases and has afforded the first opportunity for a thorough study of this disease.

Under Doctor Mallory the study of scarlet fever has been continued and the results thus far obtained published. The work is still greatly hampered by the fact that the cases of scarlet fever and of measles are running very light, so that it is almost impossible to obtain material which is suitable for study. This requires fulminating cases which die in the early stages of infection.

WORK OF THE PATHOLOGICAL LABORATORY FOR THE YEAR.

Autopsies	205
Surgical diagnoses	2,108

Autopsy bacteriology	102
Clinical bacteriology	1,744
Negative cultures	681
Guinea pig inoculations	160
Bacillus diphtheria (South Department)	31,163
Wassermann reactions	5,757
Schwartz reactions	784

The routine work of the laboratory has been carried on as in previous years and, wherever possible, such new methods and technique as have proved of value in diagnosis and treatment of disease have been made use of.

There is much to be desired in the way of laboratory equipment for both the routine work and for special tests that are requested from time to time.

A larger number of house pupils have been interested in special work than in previous years and this has been encouraged. It is unfortunate that the laboratory has been unable to furnish the necessary apparatus to enable those interested to carry on such work in connection with the cases in the wards.

The publications brought out by members of the Pathological Laboratory Staff this year have been as follows:

In the *Journal of Medical Research*, 1916:

"The Etiology of Scarlet Fever," by F. B. Mallory, M. D., and E. M. Medlar, M. D. Vol. XXXV., pages 209-229.

"The Oxidizing Ferment of the Myelocyte Series of Cells and its Demonstration by an Alphanaphthol-Pyronin Method," by G. S. Graham, M. D. Vol. XXXV., pages 231-242.

"Toxic Lesions of the Adrenal Gland and Their Repair," by G. S. Graham, M. D. Vol. XXXIV., pages 241-261.

"A Case of Metastatic Leiomyosarcoma Primary in the Uterus," by L. U. Gardner, M. D. (Accepted for publication.)

In the *American Journal of Medical Sciences*:

"Three Cases of Infection of the Upper Respiratory Tract with Staphylococcus Pyogenes Aureus Showing Clinical Symptoms of Acidosis," by L. U. Gardner, M. D. (Accepted for publication.)

OUT-PATIENT DEPARTMENT.

The Out-Patient Department statistics may be found on pages 33, 35 and 38 in the superintendent's report.

The number of patients treated in the Out-Patient Department during the past year has been 35,867. The number of visits was 146,059.

SOUTH DEPARTMENT.

During the twenty-two years that the department has been in operation, 53,955 patients have been received, nearly all ill with an infectious disease.

The following are extracts from the report of the Advisory Board of the South Department, which may be of interest:

There has been a considerable decrease in the admissions of the usual contagious affections, as diphtheria, scarlet fever, measles and whooping cough, but there has been an unusual number of cases of infantile paralysis. Boston has been through the severest epidemic of that disease in its history. Several hundred cases have been under treatment at the South Department. The mortality has been about 20 per cent on an average. While the resources of the department have been severely taxed, yet every case of application has been received and has received proper attention.

An unusual number of autopsies and a wealth of material relating to this disease have been secured. Over thirty autopsies have been performed. It is to be hoped that progress may thus be made toward ascertaining the cause, mode of transmission, prevention and treatment of this dreadful affection.

The practice inaugurated by the late superintendent, Doctor McCollom, of giving mammoth doses of antitoxin in the treatment of diphtheria has been extended until now it is common custom to give 100,000 units intravenously at a single dose in severe cases. As high as 600,000 units have been given in two days with good results. No deaths have resulted from this practice, which had its origin in this hospital.

The clinical records of the department are now placed upon a sensible basis and are made at the bedside, the only proper place for them to be taken. A card index and the loose sheets

now prevail throughout the hospital. A separate room for the storage of the records in the South Department is desirable and doubtless will be found in the basement.

HAYMARKET SQUARE RELIEF STATION.

This Relief Station has been in commission fifteen years. In these fifteen years, 519,203 patients have been treated. The number of patients treated during the first year was 20,150, and during the present year 29,017, a very great increase. These patients received 30,484 days' treatment.

EAST BOSTON RELIEF STATION.

In the eight years that the East Boston Relief Station has been in operation 111,513 patients have been treated. For the year ending January 31, 1917, 12,408 patients were treated. These patients received 29,764 days' treatment.

CONVALESCENT HOME.

The number of patients treated during the year was 355, who received 7,396 days' treatment.

CHANGES IN RULES.

The rules were changed by the creation of three new positions for Second Assistant Visiting Physicians and two new positions for Out-Patient Surgeons.

The Third Surgical Service was made a teaching service, appointment to the position of head of this service to be made only after an invitation for conference with the Harvard Corporation upon such appointment.

A daily neurological clinic was established.

It was voted to reduce the term of service for house officers from twenty to sixteen months.

An obstetrical course for nurses was introduced, the position of Instructor in Obstetrical Nursing being created.

OBITUARY.

Francis Joseph Keany, M. D., Trustee of the Boston City Hospital, also Physician for Diseases of the Skin, died suddenly in November. Upon his decease the Board of Trustees passed the following resolutions:

Francis J. Keany, M. D., Harvard, was for nineteen years a trustee of the Boston City Hospital, having been appointed in July, 1897, and was for ten years a member of the staff in the Dermatological Department. He continued, in the son, the public spirit and indefatigable industry of his father in devoting these many years to the alleviation of the sufferings of the unfortunate sick of the city, to the upbuilding of the hospital, and to the maintenance of the best work and traditions of the medical profession. In him his fellow trustees lose a pleasant and valued co-worker, companion and friend of many years, and sorrowfully appreciate the great loss, which has come by his decease, to themselves as well as to the hospital and its work of charity.

The trustees express their individual, personal grief at the sad death of their fellow trustee, and extend to his widow and children their heartfelt sympathy and condolence in their affliction and sorrow.

The death of George Howard Malcolm Rowe, M. D., former Superintendent and Resident Physician of the hospital, occurred in February. The following resolutions were adopted by the trustees:

The announcement of the death of Dr. George H. M. Rowe, though not entirely unexpected, brings to us a feeling of profound sorrow and regret.

We recall with much satisfaction our pleasant and close relations with him during the many years he was Superintendent and Resident Physician of the Boston City Hospital, and the ready assistance he gave at all times to the trustees in the furtherance of their work.

He was a faithful and conscientious official of high executive ability, skillful in the management of the great institution he so ably represented, and a large measure of its success was due to his earnest and constant effort and untiring zeal.

To his devoted sister we extend our deepest sympathy in her great loss and feel assured that her sorrow will be mitigated by the remembrance of the good he did to relieve the sufferings of the sick and needy poor.

In March, William Palmer Bolles, M. D., Consulting Surgeon, passed away. The following letter from the trustees was sent to the family of Doctor Bolles:

The trustees desire to express sincere sympathy in the great loss which you have sustained. They desire to say that Doctor Bolles, because of his very valuable services rendered to the hospital throughout the many years of his connection with the Hospital Staff, and the kindly interest that he had displayed in his patients, had greatly endeared himself both to the trustees and to his patients. Despite the fact that he was not now actively connected with the hospital, the great value of the service he had rendered to the hospital is still remembered and appreciated.

Edward Marshall Buckingham, M. D., Consulting Physician, died in December. The Senior Staff voted the following resolutions:

The Senior Staff of the Boston City Hospital has reason to regret the death of Dr. Edward M. Buckingham, who died on December 23 last.

He served for many years on the medical side and for eight years performed the arduous duties of secretary. His services were particularly valuable at the time of the Spanish War. The City Hospital received a large number of the invalid soldiers who were sent to this city for treatment. The typhoids, malarias and digestive troubles were of an especially severe type and called for especial care. Doctor Buckingham devoted himself whole-heartedly to the work and published a very excellent report in regard to their maladies when the last soldier was discharged. Although several years have passed since his retirement from active connection with this institution, his valuable work is still remembered and deserves this expression of our appreciation.

We wish to extend to his family our sympathy in their loss and to assure them that their loss is also ours.

Charles Francis Withington, M. D., Consulting Physician, died in January, 1917. The following resolutions on his death were passed by the trustees:

Charles Francis Withington, M. D., died January 7, 1917, and by his death the Staff of the Boston City Hospital loses one of its most devoted members. He was Visiting Physician from 1892 until 1915, when he was appointed a Consulting Physician.

His long term of service was marked by unfailing interest in the welfare of the hospital and untiring devotion to his patients. Possessed of unusual knowledge, his opinions were given only after careful examination and attention to the physical signs and symptoms presented by each case. His tact and judgment made him a wise counselor in the conduct of staff business and many improvements were inaugurated under his guidance. All who had the privilege of working with him appreciated his keenness of mind, ability as a teacher and skill as a diagnostician.

Always interested in public health measures, Dr. Withington, when relieved of active hospital duty, devoted himself assiduously to the study of legislative acts affecting the welfare of the community and the profession.

MEDICAL AND SURGICAL STAFF.

The following are the resignations, appointments and promotions in the Medical and Surgical Staff during the past year:

Franklin S. Newell, M. D., Senior Surgeon for Diseases of Women, resigned. His resignation was accepted with regret, the secretary expressing to him the trustees' appreciation of the services he has rendered the hospital.

Robert M. Merrick, M. D., Physician to the Convalescent Home; Walter C. Howe, M. D., First Assistant Visiting Surgeon; Peter H. Thompson, M. D., Ophthalmic Surgeon; William D. Madden, M. D., Assistant to the Ophthalmic Surgeons; W. Holbrook Lowell, M. D., Assistant to the Ophthalmic Surgeons; Henry Hawkins, M. D., Assistant to the Ophthalmic Surgeons; Minot F. Davis, M. D., Assistant to the Ophthalmic Surgeons; James P. O'Hare, M. D., Second

Assistant Visiting Physician; Cleaveland Floyd, M. D., Second Assistant Visiting Physician, have resigned their positions.

The following appointments have been made: To the position of Fourth Assistant Visiting Surgeon for Diseases of Women, Leo V. Friedman, M. D.; to the position of Assistant to the Out-Patient Surgeons, Robert C. Cochrane, M. D., Otto J. Hermann, M. D., Somers Fraser, M. D., Francis F. Henderson, M. D., Herbert H. Howard, M. D., McIver Woody, M. D., James J. Hepburn, M. D.; to the position of Physician to the Convalescent Home, Bradford Kent, M. D.; to the position of Assistant Surgeon for Diseases of Ear and Throat, William T. Haley, M. D.; to the position of Second Assistant Visiting Physician, William R. Ohler, M. D., Edmund F. Walsh, M. D., Horace Gray, M. D., Roland A. Behrman, M. D.; to the position of Assistant to the Ophthalmic Surgeons, F. N. Stephens, M. D., J. J. Corbett, M. D., L. C. Rood, M. D.

The following temporary appointments have been made: For the position of temporary Assistant to the Ophthalmic Surgeons, Frederick N. Stephens, M. D., for six months beginning March 17, 1916; Walter L. Chase, M. D., for six months beginning March 31, 1916; L. Colby Rood, M. D., and Jeremiah J. Corbett, M. D., for six months beginning August 15, 1916; for the position of Assistant to the Visiting Physicians, Joseph M. Lynch, M. D., for six months beginning November 10, 1916; for the position of Second Assistant Visiting Physician for Diseases of the Nervous System, Earle H. MacMichael, M. D., for six months beginning January 5, 1917.

The following promotions have been made: From the position of Assistant to the Out-Patient Surgeons to that of Out-Patient Surgeon, Robert C. Cochrane, M. D., Otto J. Hermann, M. D., Somers Fraser, M. D.; from the position of Assistant to the Ophthalmic Surgeons to that of Ophthalmic Surgeon, Henry B. Stevens, M. D.; from the position of Out-Patient Surgeon to that of First Assistant Visiting Surgeon, Halsey B. Loder, M. D.

GIFTS.

The trustees make grateful acknowledgment of the following gifts to the hospital:

A handsome picture of Trajan's Forum from his Honor Mayor Curley.

A picture of the late Dr. William P. Bolles, given by Mrs. Bolles.

Six electric fans for use in the Surgical Out-Patient Department from Miss Eugenia M. Gardiner.

An electric fan for the Surgical House Officers' room from Dr. Horace Binney.

A hot air baking machine from Dr. Franklin W. White.

Twenty small high frequency machines from Dr. William H. Llewellyn of New York.

A static machine from Mr. Charles S. Bird.

The family of the late Dr. David Williams Cheever have given a bronze relief portrait of Doctor Cheever for the Cheever Amphitheater, Mr. Bela L. Pratt being the sculptor.

Thirty medical books from the library of the late Dr. Francis J. Keany were given by Mrs. Keany. These will be placed in the Dermatological Out-Patient Department.

The trustees desire to express their sincere appreciation of the continued interest and generous aid rendered to the hospital by his Honor the Mayor and the City Council; of the unselfish devotion of the Medical and Surgical Staffs and their skillful care and treatment of the sick and afflicted; and of the faithful and efficient work of the Superintendent and his assistants, which has been a source of great strength and benefit to the trustees.

Respectfully submitted,

A. SHUMAN, *President.*

JOSEPH P. MANNING, *Secretary.*

CONRAD J. RUETER.

THOMAS A. FORSYTH.

REPORT OF THE SUPERINTENDENT AND MEDICAL DIRECTOR.

BOSTON CITY HOSPITAL, February 1, 1917.

To the Trustees:

GENTLEMEN,— I have the honor to present herewith the annual report of the Hospital Department for the year ending January 31, 1917.

On June 1, 1864, the Boston City Hospital was opened for the admission of patients. Since that time the number of house patients treated in the different departments has been 430,317 and the number of out-patients 1,692,025. The table on page 35 shows the number of patients who have applied for admission and been treated in the hospital proper and the South Department during the last ten years. The principal statistics for the year are shown on pages 37 and 38. The other tables are self-explanatory.

Patients admitted to the hospital according to services:

Medical services	5,615
Surgical services	6,787
Gynæcological service	1,771
Ophthalmic service	160
Aural and laryngological service	1,974
Neurological service	713
Dermatological service	154
Total	<u>17,174</u>

Number of visits of patients to the hospital for advice and treatment in the Out-Patient Departments:

Medical diseases	13,885
Surgical diseases	85,483
Carried forward	<u>99,368</u>

<i>Brought forward</i>	99,368
Diseases of the eye	6,837
Diseases of the ear and throat	12,929
Diseases of the skin	4,531
Diseases of women	4,302
Diseases of the nervous system	9,146
X-ray and radium treatment	8,349
Vaccine and serum inoculation:	
Visits of out-patients	4,268
Visits of nurses and house officers for inoculation against typhoid fever	597
	<hr/> 4,865
Total	150,327
Less visits counted more than once:	
In Vaccine and Serum Therapy Department	4,268
Total visits	<hr/> <u>146,059</u>

TABLE OF ADMISSIONS AND DEATHS FROM FEBRUARY 1, 1907, TO JANUARY 31, 1917.
Hospital Proper and South Department.

	Patients Examined for Ad- mission.	Patients Admitted.	Patients Acciden- tally Injured.	Number of Out- Patients Treated.	Number of Patients in Hospital at Beginning of Year.	Number of Patients Treated.	Died.	Rate of Mortality.
February 1, 1907, to January 31, 1908.....	15,227	11,751	853	40,246	734	12,485	1,406	.113
February 1, 1908, to January 31, 1909.....	17,741	12,403	898	42,310	758	13,161	1,401	.106
February 1, 1909, to January 31, 1910.....	15,397	11,674	928	39,482	828	12,502	1,327	.106
February 1, 1910, to January 31, 1911.....	16,261	13,074	1,075	40,032	785	13,859	1,483	.107
February 1, 1911, to January 31, 1912.....	15,747	13,033	1,232	38,129	744	13,777	1,611	.117
February 1, 1912, to January 31, 1913.....	17,557	14,236	1,420	42,309	779	15,015	1,609	.107
February 1, 1913, to January 31, 1914.....	19,115	15,237	1,362	47,385	933	16,170	1,696	.105
February 1, 1914, to January 31, 1915.....	20,222	16,498	1,410	43,801	893	17,391	1,671	.096
February 1, 1915, to January 31, 1916.....	22,449	18,456	1,508	39,351	949	19,405	1,760	.091
February 1, 1916, to January 31, 1917.....	24,281	19,800	1,328	35,867	935	20,735	1,885	.091

The total number of patients admitted to the wards since the opening of the hospital and South Department has been 403,306 and the number of out-patients has been 1,078,500.

HOSPITAL PROPER.

 APPLICANTS EXAMINED FOR ADMISSION DURING THE
YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1916.	February.....	1,517	1,317	200
	March.....	1,755	1,481	274
	April.....	1,789	1,443	346
	May.....	1,922	1,564	358
	June.....	1,720	1,353	367
	July.....	1,935	1,397	538
	August.....	2,003	1,481	522
	September.....	1,668	1,329	339
	October.....	1,659	1,357	302
	November.....	1,753	1,448	305
	December.....	1,715	1,391	324
1917.	January.....	1,899	1,613	286
	Totals.....	21,335	17,174	4,161

HOSPITAL PROPER.

PRINCIPAL STATISTICS, 1916-17.

Number of Patients.

Number of patients remaining in the hospital proper January 31, 1916	596
Admitted from February 1, 1916, to January 31, 1917, inclusive:	
Medical	5,615
Surgical	6,787
Gynæcological	1,771
Ophthalmic	160
Aural and laryngological	1,974
Neurological	713
Dermatological	154
	<hr/> 17,174
Treated during the year	17,770
Discharged during the year	15,479
Died during the year	1,629
	<hr/> 17,108
Number of patients remaining in the hospital proper January 31, 1917	662
Number of births during the year	179
Largest number of patients in the hospital at any one time	711
Smallest number of patients in the hospital at any one time	472
Daily average number of patients	588.5
Average number of days' stay of patients	12.1
Number of weeks' treatment given in hospital	30,771
Number of days' treatment given in hospital	215,399
Number of applicants for admission to hospital	21,335
Number of applicants rejected	4,161
Number of patients treated in Out-Patient Depart- ments	35,867

Number of visits made by out-patients	146,059
Patients carried in ambulances	6,418
Number of patients accidentally injured, admitted	1,328

Number of out-patients treated in the Out-Patient Departments, classified according to diseases:

For medical diseases	5,725
For surgical diseases	18,826
For diseases of the eye	2,535
For diseases of the ear and throat	4,668
For diseases of the skin	1,987
For diseases of women	1,111
For diseases of the nervous system	816
For X-ray and radium treatment	146
For vaccine and serum inoculation:	
Out-patients treated	878
Nurses and house officers inoculated against typhoid fever	199
	<hr/> 1,077
Total	36,891
Less patients counted more than once:	
In X-Ray Department	146
In Vaccine and Serum Therapy Department	878
	<hr/> 1,024
Total number of out-patients treated	<u><u>35,867</u></u>

PRESENT CAPACITY OF THE HOSPITAL DEPARTMENTS.

The schedule of beds is as follows:

Hospital proper	680
South Department	340
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
	<hr/> 1,088

The distribution of the beds in the Main Department is as follows:

	WARD.			PRIVATE.		Totals.
	Males.	Females.	Children.	Males.	Females.	
Surgical.....	152	74	30	9	9	274
Medical.....	129	89	16	8	7	249
Gynæcological and obstet- rical.....		77	20		3	100
Aural and laryngological....	5	5	4			14
Ophthalmic.....	5	4				9
Neurological.....	15	11				26
Dermatological	4	4				8
Totals.	310	264	70	17	19	680

STATISTICS OF PATIENTS ACCORDING TO SERVICES.

February 1, 1916, to January 31, 1917, Inclusive.

SERVICES.	In Hospital February 1, 1916.	Admitted.	Discharged.	Died.	Total Discharged and Died.	In Hospital January 31, 1917.
First Surgical.....	67	1,402	1,318	105	1,423	46
Second Surgical.....	66	1,525	1,434	113	1,547	44
Third Surgical.....	68	1,553	1,474	99	1,573	48
Fourth Surgical.....	15	1,099	982	85	1,067	47
Fifth Surgical.....	69	1,208	1,140	90	1,230	47
First Medical.....	47	1,314	1,079	212	1,291	70
Second Medical.....	51	1,392	1,144	231	1,375	68
Third Medical.....	49	1,457	1,205	229	1,434	72
Fourth Medical.....	46	1,452	1,225	205	1,430	68
Gynæcological.....	65	1,771	1,655	94	1,749	87
Ophthalmic.....	6	160	155		155	11
Aural and laryngological.....	21	1,974	1,957	17	1,974	21
Neurological.....	22	713	572	139	711	24
Dermatological.....	4	154	139	10	149	9
Totals.	596	17,174	15,479	1,629	17,108	662

RECEIPTS AND EXPENDITURES.

Receipts.

City appropriation	\$796,407 27
Interest on trust funds	2,164 00
	<hr/>
	\$798,571 27
Deduct:	
Balance returned to city treasury	17 40
	<hr/>
	<u>\$798,553 87</u>

Expenditures.

All departments of hospital	<u>\$798,553 87</u>
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APPLICANTS NOT ADMITTED DURING THE YEAR.

*February 1, 1916, to January 31, 1917, Inclusive.**Cause of rejection:*

For want of accommodation	25
For want of accommodation, but admitted within three days	9
Self-rejected or deferred	101
Self-rejected or deferred, but admitted within three days	15
Self-rejected or deferred, but admitted later	9
For want of sufficient information	81
For want of sufficient information, but admitted within three days	24
For want of sufficient information, but admitted later, Referred to Out-Patient Departments	3,614
Referred to South Department	2
Nonresident	240
Chronic	46
Tuberculosis	1
Delirium tremens	2
Venereal	22
Pregnancy	11
Insane	1
Miscellaneous	15
Total	<hr/> 4,225
Admitted within three days or later	64
Total not admitted	<u><u>4,161</u></u>

RECORD OF AMBULANCE WORK.

*Transportation to the Hospital.**Trips to*

Business center	253
North End	213
West End	362
Back Bay	164
South End	1,031
Roxbury	1,063
West Roxbury	127
Dorchester	580
South Boston	740
East Boston	378
Charlestown	393
Jamaica Plain	156
Brighton	151
Roslindale	103
Hyde Park	102
South Department	43
Total trips in	5,859
Did not come	192
Patients brought	<u>5,667</u>

Transportation from the Hospital.

Convalescent Home	91
Patients' homes	75
Other hospitals	264
Trips out	430
Carried extra	321
Patients carried	<u>751</u>

Summaries.

Total number of trips	6,289
Total patients transferred	<u>6,418</u>

*Record of Limousine Trips for Physicians and Surgeons.**In bringing:*

The physician and the surgeon	<u>235</u>
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Number of miles the ambulances have run, as shown

by odometer count, in all departments 47,336

AMBULANCE.

*Per Capita Cost of Transportation for the Years 1909,
1910, 1911, 1912, 1913, 1914.*

	Expenditures.	Number of Miles.	Cost per Patient.	Cost per Mile.
Year ending January 31, 1910.....	\$12,637 32	27,754	\$1.911	\$0.455
Year ending January 31, 1911.....	12,647 80	32,064	1.560	.394
Year ending January 31, 1912.....	13,674 95	32,912	1.615	.416
Year ending January 31, 1913.....	14,316 72	35,515	1.544	.403
Year ending January 31, 1914.....	16,349 23	39,589	1.637	.413
Year ending January 31, 1915.....	20,068 06	43,734	1.919	.459

CENSUS OF DAYS' BOARD OF ALL PERSONS.

February 1, 1916, to January 31, 1917, Inclusive.

	Patients.	Officers and Employees.	Total Days' Board.
Hospital proper.....	215,399	180,572	395,971
South Department.....	97,167	57,444	154,611
Haymarket Square Relief Station.....	1,996	12,905	14,901
East Boston Relief Station.....	997	4,976	5,973
Convalescent Home.....	7,396	3,026	10,422
Totals.....	322,955	258,923	581,878

DAILY AVERAGE OF PERSONS.

	Patients.	Officers and Employees.	All Persons.
Hospital proper.....	588.5	493.4	1,081.9
South Department.....	265.5	156.9	422.4
Haymarket Square Relief Station.....	5.5	35.2	40.7
East Boston Relief Station.....	2.7	13.6	16.3
Convalescent Home.....	20.2	8.3	28.5
Totals.....	882.4	707.4	1,589.8

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	All Departments.
Maximum number of days' board of patients.....	711	393	14	9	33	.....
Minimum number of days' board of patients.....	472	117	1	0	9	.....
Maximum number of days' board of persons.....	1,232	575	50	22	41	1,808
Minimum number of days' board of persons.....	915	252	35	13	17	1,251

HOSPITAL PROPER.

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.

Boston.....	5,769	<i>Brought forward...</i>	15,719
Other cities and towns		Portugal.....	43
in Massachusetts....	1,500	British West Indies....	41
Maine.....	434	France.....	23
New Hampshire.....	184	Finland.....	18
Rhode Island.....	142	Armenia.....	17
Vermont.....	127	Syria.....	17
Connecticut.....	85	Denmark.....	15
Other states.....	914	Belgium.....	15
Ireland.....	2,353	Cape Verde Islands....	14
British Provinces.....	1,333	China.....	13
Russia.....	1,018	Holland.....	12
Italy.....	659	Roumania.....	10
England.....	407	Hungary.....	9
Sweden.....	175	Spain.....	8
Germany.....	172	Servia.....	8
Scotland.....	149	South America.....	8
Greece.....	72	Lithuania.....	7
Austria.....	72	Bermuda.....	5
Poland.....	64	Albania.....	5
Norway.....	47	Asia.....	4
Turkey.....	43	Azores.....	4
<i>Carried forward...</i>	15,719	<i>Carried forward...</i>	16,015

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.

— *Concluded.*

<i>Brought forward...</i>	16,015	<i>Brought forward...</i>	16,044
Egypt.....	4	Mexico.....	2
Hawaii.....	4	Bulgaria.....	2
Switzerland.....	3	Fiji Islands.....	1
Barbadoes Islands.....	3	Macedonia.....	1
Bohemia.....	3	South Wales.....	1
Philippine Islands.....	3	Australia.....	1
Palestine.....	3	India.....	1
Sicily.....	2	Island of Malta.....	1
Santiago.....	2	Unknown.....	1,120
Japan.....	2		
		Total.....	<u>17,174</u>
<i>Carried forward...</i>	16,044		

CONDITION OF PATIENTS DISCHARGED DURING THE YEAR.

Well.....	1,850	<i>Brought forward...</i>	15,422
Relieved.....	12,243	Not treated.....	57
Not relieved.....	1,329	Died.....	1,629
<i>Carried forward...</i>	15,422	Total.....	<u>17,108</u>

SOUTH DEPARTMENT.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1916.	February.....	271	239	32
	March.....	313	266	47
	April.....	299	263	36
	May.....	282	236	46
	June.....	273	239	34
	July.....	163	130	33
	August.....	196	181	15
	September.....	290	274	16
	October.....	329	310	19
	November.....	134	128	6
	December.....	157	147	10
1917.	January.....	239	213	26
	Totals.....	2,946	2,626	320

APPLICANTS NOT ADMITTED DURING THE YEAR.

February 1, 1916, to January 31, 1917, Inclusive.

CAUSE OF REJECTION.	1916. February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1917. January.	Totals.
Nonresident.....		1			2			1					4
Self-rejected.....	7	5	5	7	3	5	1	2	6				41
No infectious disease.....	23	31	29	34	24	26	14	12	11	5	9	23	241
Want of accommodation.....				* 1					† 2	† 1			4
Parotitis †.....		1			1						1	1	4
Rubella †.....	2	9	2	3	4	1		1					22
Varicella †.....				1		1						2	4
Totals.....	32	47	36	46	34	33	15	16	19	6	10	26	320

* Case of pertussis — no isolation room.

† Cases of measles — no ward open for this disease at that time.

‡ No wards for these diseases.

RECORD OF AMBULANCE WORK IN BRINGING PATIENTS TO SOUTH DEPARTMENT.

Trips to:

Business center	5
North End	82
West End	241
Back Bay	20
South End	387
Roxbury	383
West Roxbury	42
South Boston	224
East Boston	256
Charlestown	125
Dorchester	295
Jamaica Plain	56
Brighton	48
Hyde Park	52
Suburban town	1
<hr/>	
Total trips in	2,217
Brought extra	222
<hr/>	
Did not come	118
<hr/>	
Patients brought	<u>2,321</u>

NATIVITY OF PATIENTS ADMITTED TO THE SOUTH DEPARTMENT DURING THE YEAR.

Boston.....	1,793	<i>Brought forward...</i>	2,309
Other cities and towns		Ireland.....	40
in Massachusetts....	283	Italy.....	29
Maine.....	23	Russia.....	26
New Hampshire.....	28	England.....	9
Vermont.....	8	Sweden.....	7
Rhode Island.....	8	Portugal.....	7
Connecticut.....	8	Germany.....	5
Other states.....	72	Greece.....	4
British Provinces.....	86	Finland.....	4
<hr/>		<hr/>	
<i>Carried forward...</i>	2,309	<i>Carried forward...</i>	2,440

NATIVITY OF PATIENTS ADMITTED TO THE SOUTH
DEPARTMENT DURING THE YEAR.—*Concluded.*

<i>Brought forward...</i>	2,440	<i>Brought forward...</i>	2,452
Scotland.....	3	Spain.....	1
Austria.....	3	Turkey.....	1
South America.....	2	West Indies.....	1
Syria.....	2	Central America.....	1
Norway.....	1	Unknown.....	170
France.....	1		
	<hr/>		<hr/>
<i>Carried forward...</i>	2,452	Total.....	<u>2,626</u>

CONDITION OF PATIENTS DISCHARGED FROM THE SOUTH
DEPARTMENT DURING THE YEAR.

Well.....	2,164	<i>Brought forward...</i>	2,512
Relieved.....	324	Died.....	256
Not relieved.....	24		
	<hr/>		<hr/>
<i>Carried forward...</i>	2,512	Total.....	<u>2,768</u>

The following are the principal statistics for the year:

Number of patients remaining in the South Department	
January 31, 1916	339
Admitted from February 1, 1916, to January 31, 1917, inclusive	2,626
	<hr/>
Treated during the year	2,965
Discharged during the year	2,512
Died during the year	256
	<hr/>
	2,768
	<hr/>
Number of patients remaining January 31, 1917	197
Maximum number of patients at any one time	393
Minimum number of patients at any one time	117
Daily average number of patients	265.5
Average number of days' stay of patients	32.8
Number of days' treatment given patients	97,167
Number of weeks' treatment given patients	13,881
Number of days' board given persons	154,611
Number of weeks' board given persons	22,087
Number of applicants for admission	2,946

Number of patients rejected	320
Patients carried in ambulances	2,321
Number of patients admitted over fifteen years of age,	436
Number of patients dying within forty-eight hours of admission	117
Average age of patients	8.3
Percentage of deaths to discharges	9.2
The death rate from all diseases	8.6
The death rate from all diseases deducting deaths within twenty-four hours of admission	5.6

If a comparison is made between the South Department and the hospital proper as to the number of days' board given patients, it will be found that at the former it is 97,167, while at the latter it is 215,399.

THE SOUTHAMPTON WARDS.

The Southampton Wards were open from February 9 to May 17, inclusive, to take the overflow of scarlet fever cases during the epidemic. These wards were again open from July 14 to November 24, inclusive, for poliomyelitis cases. Nine thousand nine hundred and ninety-nine days' board were given to patients, 3,058 to employees, making a total of 13,057 days' board given at the Southampton Wards during the year. The largest number of patients there on any one day was 99.

During the poliomyelitis epidemic, 17,110 days' board were given to patients, 4,576 to employees caring for these cases, making a total of 21,686 days' board given at the South Department, including Southampton Wards, on account of the poliomyelitis epidemic. The greatest number of patients ill with poliomyelitis on any one day during the epidemic was 266, that being the number in the hospital on October 30.

STATISTICAL TABLES.

Table No. 1.

EXPENDITURES, CLASSIFIED, FOR THE YEAR ENDING
JANUARY 31, 1917.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1916-1917.	
A. PERSONAL SERVICE:		
As per Table No. 3.....		\$355,873 94
Permanent employees.....	\$348,434 40	
Temporary employees	3,422 44	
Unassigned.....	4,017 10	
B. SERVICE OTHER THAN PERSONAL.....		34,151 57
Printing and binding.....	\$886 60	
Postage.....	994 84	
Advertising and posting.....	60 20	
Transportation of persons	652 21	
Cartage and freight.....	396 45	
Hire of teams.....	12 95	
Light and power.....	5,136 81	
Insurance.....	489 58	
Premium on surety bond.....	78 05	
Communication.....	3,920 83	
Motor vehicle repairs.....	1,606 37	
Motorless vehicle repairs.....	229 14	
Care of horses.....	674 98	
Cleaning.....	2 75	
Removal of ashes and dirt and garbage.....	417 00	
Removal of snow.....	913 29	
Veterinary.....	13 00	
Testing materials and supplies.....	145 30	
Expert and architect.....	1,608 42	
Fees, service of venires, etc.....	26 70	
Boiler inspection.....	22 00	
General plant repairs.....	15,535 56	
Harness, etc., repairs.....	25 10	
Horseshoeing and clipping.....	303 44	
Carried forward.....		\$390,025 51

EXPENDITURES, CLASSIFIED, FOR YEAR ENDING JANUARY 31, 1917.—*Cont.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1916-1917.	
<i>Brought forward</i>		\$390,025 51
C. EQUIPMENT.....		50,986 39
Electrical.....	\$116 09	
Motor vehicles.....	9,653 22	
Motorless vehicles.....	58 87	
Stable.....	122 13	
Furniture and fittings.....	16,921 62	
Educational and recreational.....	167 95	
Office.....	320 15	
Medical, surgical, laboratory.....	15,126 99	
Tools and instruments.....	2,818 61	
Live stock.....	143 10	
Wearing apparel.....	3,659 46	
General plant.....	1,878 20	
D. SUPPLIES.....		340,734 47
Office.....	\$9,459 67	
Food and ice.....	197,753 30	
Fuel.....	65,385 99	
Forage and animal.....	1,263 76	
Medical, surgical, laboratory.....	53,997 56	
Veterinary.....	2 25	
Laundry, cleaning and toilet.....	8,585 58	
Educational and recreational.....	215 06	
Agricultural.....	306 09	
Motor vehicle.....	1,676 75	
Chemicals and disinfectants.....	442 37	
General plant.....	1,646 09	
E. MATERIALS.....		16,077 70
Building.....	\$7,994 27	
Apparatus.....	14 85	
Machinery.....	1,158 00	
Electrical.....	2,098 15	
General plant.....	4,812 43	
F. SPECIAL ITEMS.....		729 80
Workingmen's compensation.....	\$729 80	
Total expenditures.....		\$798,553 87
<i>Carried forward</i>		\$798,553 87

EXPENDITURES, CLASSIFIED, FOR YEAR ENDING JANUARY 31, 1917.— *Concl.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1916-1917.	
<i>Brought forward</i>		\$798,553 87
STOCK ON HAND FEBRUARY 1, 1916.		
<i>All Departments.</i>		
General supplies.....	\$27,662 88	
Coal.....	442 82	
Medical supplies.....	5,657 30	
Liquor.....	250 00	
		34,013 00
		\$832,566 87
DEDUCT.		
STOCK ON HAND FEBRUARY 1, 1917.		
<i>All Departments.</i>		
General supplies.....	\$35,309 02	
Coal.....	12,496 57	
Medical supplies.....	6,667 16	
Liquors.....	190 25	
		54,663 00
Total maintenance expenses.....		\$777,903 87
DEDUCT REVENUE.		
Income from paying patients:		
Collected by hospital.....	\$115,359 20	
Collected by Board of Health for con- tagious cases.....	35,465 90	
		\$150,825 10
Revenue on account of maintenance:		
Interest on trust funds.....	2,164 00	
Sundry revenue:		
Sale of bones and trimmings.....	\$1,777 93	
Sale of old material, including X-ray plates, horses and stable equipment, steam kettle, books, paper, etc.....	1,264 42	
Commission on automatic telephones.....	122 38	
Damage to coupé.....	100 00	
Rent of land for store.....	100 00	
Interest on bank deposit.....	54 05	
Birth fees.....	44 25	
Sale of standing grass.....	40 00	
Refund on expressage.....	10	
	3,503 13	
		156,492 23
Net cost to the city for maintaining all departments from February 1, 1916, to January 31, 1917, inclusive.....		\$621,411 64

Table No. 2.

EXPENDITURES ON FOOD, ICE AND FUEL.
February 1, 1916, to January 31, 1917, Inclusive.

ARTICLES.	Quantity.	Average Price.	Cost.	Total.
Food.				
Beef and veal.....	142,131 lbs.	\$0.156 per lb.	\$22,164 54	
Mutton and lamb.....	69,401 "	.152 "	10,524 36	
Poultry.....	90,324 "	.203 "	18,367 56	
Pork and hams.....	70,013 "	.154 "	10,762 97	
Fish.....			4,863 23	
Lard.....	11,770 lbs.	.094 per lb.	1,109 69	
Table milk.....	553,347½ qts.	.069 per qt.	38,106 90	
Malted and modified milk...			1,116 16	
Butter.....	59,510 lbs.	.317 per lb.	18,856 14	
Cheese.....	2,070 "	.205 "	424 66	
Eggs.....	68,307 doz.	.322 per doz.	22,027 60	
Vegetables, fresh.....			10,799 65	
Vegetables, canned.....			4,529 34	
Fruit, fresh.....			5,333 85	
Fruit, canned.....			2,301 97	
Flour.....	990½ bbls.	6.680 per bbl.	6,613 55	
Graham flour.....	4½ "	6.06 "	25 25	
Oatmeal.....	84 "	5.206 "	437 30	
Cornstarch and farina.....	2,132 lbs.	.039 per lb.	83 05	
Rice.....	10,201 "	.050 "	507 29	
Other cereals.....			1,654 80	
Groceries.....			2,573 38	
Coffee.....	13,376 lbs.	.182 per lb.	2,440 40	
Tea.....	4,698 "	.212 "	995 09	
Chocolate and cocoa.....	2,724 "	.159 "	432 28	
Sugar.....	102,028 "	.070 "	7,129 47	
Molasses and syrup.....	527½ gals.	.314 per gal.	165 60	
				<u>\$194,346 08</u>
ICE.				
Ice.....	1,090½ tons	\$3.124 per ton	\$3,407 22	
				<u>\$3,407 22</u>
FUEL.				
Steaming coal.....	11,575½ tons	\$5.230 per ton	\$60,537 72	
Anthracite coal.....	768½ "	6.138 "	4,715 27	
Charcoal.....			133 00	
				<u>\$65,385 99</u>

Table No. 3.

SUBDIVISION OF PAY ROLLS FOR THE YEAR ENDING
JANUARY 31, 1917.

TITLE OF POSITION.	ALL DEPARTMENTS.			
	Number of Incumbents.	Rate by Year, Month, Week, Day.	Equivalent per Annum.	Amount.
<i>Permanent Employees.</i>				
Superintendent.....	1 @	\$5,000 00 yr.	\$5,000 00	\$5,316 67
Assistant superintendent.....	1 @	58 33 wk.	3,033 16	3,031 57
Physicians.....	2 @	58 33 wk.	3,033 16	7,294 79
Physician.....	1 @	48 61 wk.	2,527 72	2,359 74
Physicians.....	3 @	38 89 wk.	2,022 28	6,005 82
Physicians.....	4 @	29 17 wk.	1,516 84	5,362 02
Physician.....	1 @	25 28 wk.	1,314 56	1,313 86
Physicians.....	2 @	23 33 wk.	1,213 16	3,107 11
Physicians.....	6 @	19 44 wk.	1,010 88	5,238 64
Physicians.....	2 @	9 72 wk.	505 44	1,024 23
Clerk.....	1 @	21 00 wk.	1,092 00	1,091 00
Clerk.....	1 @	20 00 wk.	1,040 00	1,019 00
Clerk.....	1 @	19 44 wk.	1,010 88	1,010 34
Clerks.....	3 @	18 00 wk.	936 00	2,781 00
Clerk.....	1 @	16 33 wk.	849 16	846 39
Clerk.....	1 @	16 00 wk.	832 00	831 00
Clerk.....	1 @	15 00 wk.	780 00	779 50
Clerks.....	3 @	14 00 wk.	728 00	2,758 60
Clerk.....	1 @	13 61 wk.	707 72	610 18
Clerks.....	5 @	12 00 wk.	624 00	3,056 00
Clerks.....	7 @	10 00 wk.	520 00	3,484 99
Hospital employee.....	1 @	36 94 wk.	1,920 88	1,953 76
Hospital employee.....	1 @	35 00 wk.	1,820 00	1,819 04
Hospital employee.....	1 @	30 00 wk.	1,560 00	1,557 14
Hospital employee.....	1 @	29 17 wk.	1,516 84	1,486 85
Hospital employees.....	4 @	25 00 wk.	1,300 00	4,319 33
Hospital employees.....	2 @	23 33 wk.	1,213 16	2,424 39
Hospital employees.....	8 @	23 00 wk.	1,196 00	8,825 00
Carried forward.....				\$80,707 96

SUBDIVISION OF PAY ROLLS FOR THE YEAR ENDING JANUARY 31, 1917.—
Continued.

TITLE OF POSITION.	ALL DEPARTMENTS.			
	Number of Incumbents.	Rate by Year, Month, Week, Day.	Equivalent per Annum.	Amount.
<i>Brought forward</i>				\$80,707 96
Hospital employee.....	1 @	\$22 36 wk.	\$1,162 72	1,130 17
Hospital employee.....	1 @	22 00 wk.	1,144 00	462 00
Hospital employee.....	1 @	21 39 wk.	1,112 28	1,090 29
Hospital employees.....	9 @	21 00 wk.	1,092 00	4,323 50
Hospital employee.....		20 50 wk.	1,066 00	635 50
Hospital employees.....	3 @	20 00 wk.	1,040 00	2,215 67
Hospital employee.....		19 50 wk.	1,014 00	4,780 75
Hospital employees.....	2 @	19 00 wk.	988 00	686 66
Hospital employee.....	1 @	18 67 wk.	970 84	970 32
Hospital employee.....	1 @	18 50 wk.	962 00	954 14
Hospital employee.....	1 @	18 00 wk.	936 00	933 00
Hospital employees.....	16 @	17 50 wk.	910 00	13,904 50
Hospital employees.....	8 @	17 00 wk.	884 00	6,725 08
Hospital employees.....	5 @	16 33 wk.	849 16	4,206 96
Hospital employees.....	7 @	16 00 wk.	832 00	1,946 66
Hospital employee.....	1 @	15 87 wk.	825 24	824 25
Hospital employees.....	2 @	15 17 wk.	788 84	1,576 80
Hospital employees.....	3 @	15 00 wk.	780 00	2,232 97
Hospital employee.....	1 @	14 70 wk.	764 40	762 91
Hospital employees.....	11 @	14 00 wk.	728 00	9,594 01
Hospital employee.....		13 00 wk.	676 00	441 75
Hospital employees.....	4 @	12 83 wk.	667 16	2,896 75
Hospital employee.....	1 @	12 00 wk.	624 00	1,441 17
Hospital employees.....	27 @	11 67 wk.	606 84	16,245 74
Hospital employees.....	3 @	11 00 wk.	572 00	2,532 18
Hospital employees.....	3 @	10 50 wk.	546 00	1,563 55
Hospital employees.....	4 @	10 00 wk.	520 00	2,957 86
Hospital employees.....	6 @	9 33 wk.	485 16	2,905 91
Hospital employees.....	2 @	9 10 wk.	473 20	928 05
Hospital employees.....	3 @	9 00 wk.	468 00	1,699 53
Hospital employees.....	7 @	8 87 wk.	461 24	1,659 67
Hospital employees.....	15 @	8 17 wk.	424 84	7,716 56
Hospital employees.....	12 @	8 00 wk.	416 00	5,116 22
<i>Carried forward</i>				\$188,769 04

SUBDIVISION OF PAY ROLLS FOR THE YEAR ENDING JANUARY 31, 1917.—
Continued.

TITLE OF POSITION.	ALL DEPARTMENTS.			
	Number of Incumbents.	Rate by Year, Month, Week, Day.	Equivalent per Annum.	Amount.
<i>Brought forward</i>				\$188,769 04
Hospital employees.....	4 @	\$7 93 wk.	\$412 36	1,512 94
Hospital employee.....	1 @	7 78 wk.	404 56	404 34
Hospital employees.....	195 @	7 00 wk.	364 00	60,951 64
Hospital employees.....	3 @	6 53 wk.	339 56	1,778 11
Hospital employees.....	2 @	6 00 wk.	312 00	620 57
Hospital employees.....	41 @	5 83 wk.	303 16	12,008 81
Hospital employee.....	1 @	5 50 wk.	288 00	271 85
Hospital employees.....	7 @	4 67 to 5 83 wk.	243 00 to 303 00	1,368 08
Hospital employees.....	14 @	5 00 wk.	260 00	4,234 62
Hospital employees.....	2 @	4 90 wk.	254 80	520 53
Hospital employees.....	80 @	4 67 wk.	242 84	18,830 15
Hospital employees.....	2 @	4 50 wk.	234 00	468 64
Hospital employee.....	1 @	3 73 wk.	193 96	187 26
Hospital employees.....	2 @	3 50 wk.	182 00	305 40
Head nurses.....	63 @	40 00 to 65 00 mo.	480 00 to 780 00	28,182 29
Undergraduate nurses.....	159 @	8 33 to 16 67 mo.	100 00 to 200 00	16,921 82
Head carpenter and head painter.....	2 @	3 00 day	936 00	1,869 00
Carpenters and painters.....	6 @	2 75 day	858 00	4,944 50
Laboratory assistant.....	1 @	1 50 day	234 00	234 00
Floor polishers.....	2 @	1 00 day	312 00	538 11
House cleaners.....	16 @	1 00 day	312 00	3,329 50
Scrubber.....	1 @	0 15 hr.		183 20
				<u>\$348,434 40</u>
<i>Temporary Employees.</i>				
Temporary carpenter.....		\$2 75 day		\$873 13
Temporary jobbers.....	3 @	0 20 hr.		700 40
Temporary jobber.....		2 50 day		70 00
Temporary painters.....		2 75 day		66 00
Temporary plumber.....		18 00 wk.		117 00
<i>Carried forward</i>				\$1,826 53

SUBDIVISION OF PAY ROLLS FOR THE YEAR ENDING JANUARY 31, 1917.—
Concluded.

TITLE OF POSITION.	ALL DEPARTMENTS.			
	Number of Incumbents.	Rate by Year, Month, Week, Day.	Equivalent per Annum.	Amount.
<i>Brought forward.</i>.....	.....	.....	.....	\$1,826 53
Temporary firemen.....	.....	\$19 50 wk.	.....	61 75
Temporary firemen.....	3 @	21 00 wk.	.....	675 50
Temporary coal passers.....	2 @	16 00 wk.	.....	174 66
Temporary Graduate Special Nurses.....	2 @	3 00 day	.....	684 00
				<u>\$3,422 44</u>
<i>Unassigned.</i>				
Overtime.....	.....	.....	.....	\$758 84
Emergency.....	.....	.....	.....	3,258 26
				<u>\$4,017 10</u>
Totals.....	.....	.....	.....	\$355,873 94

Table No. 4.

COMPARISON OF THE CENSUS AND EXPENDITURES AT THE BOSTON CITY HOSPITAL FOR THE FISCAL YEARS ENDING JANUARY 31, 1913, 1914, 1915, 1916, 1917.

POPULATION.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Number of inmates beginning fiscal year,	805	970	930	971	975
Number received during year.....	16,199	17,107	18,149	19,922	20,987
Number discharged during year, including deaths.....	16,034	17,147	18,108	19,918	21,070
Number at end of fiscal year.....	970	930	971	975	892
Daily average attendance (i. e., number inmates actually present) during fiscal year.....	767.0	830.9	859.5	865.3	882.4
Average number officers and employees during fiscal year.....	647.3	665.1	698.6	717.4	707.4
Total average — inmates, officers and employees.....	1,414.3	1,496.0	1,558.1	1,582.7	1,589.8
EXPENDITURES.					
Current expenditures:					
Salaries and wages.....	\$258,247 83	\$278,679 29	\$298,305 57	\$341,535 63	\$356,603 74
Clothing.....	1,734 60	1,679 21	2,364 42	2,883 84	3,659 46
Subsistence of patients and employees,	153,672 94	162,983 02	178,080 27	164,013 80	194,346 08
Ordinary repairs and replacements..	32,119 14	22,091 71	27,959 88	35,018 09	19,691 37
Office, domestic, outdoor expenses...	141,659 80	150,867 79	167,303 11	174,986 05	206,093 10
Extraordinary expenses:					
Permanent improvements.....				3,670 70	18,160 12
Salaries.....				2,937 32	
Grand totals.....	\$587,434 31	\$616,301 02	\$674,013 25	\$725,045 43	\$798,553 87
Deduct Out-Patient Department (estimated).....	60,687 68	62,822 14	67,285 64	77,683 53	85,445 26
Totals.....	\$526,746 63	\$553,478 88	\$606,727 61	\$647,361 90	\$713,108 61
Add or deduct difference in stock on hand at beginning and end of year...	+896 00	+366 00	—9,768 00	+4,368 00	—20,650 00
Gross cost for ward patients..	\$527,642 63	\$553,844 88	\$596,959 61	\$651,729 90	\$692,458 61
Deduct revenue paid to City Treasurer,	114,406 32	116,210 46	127,988 35	142,960 76	156,492 23
Net cost for ward patients.....	\$413,236 31	\$437,634 42	\$468,971 26	\$508,769 14	\$535,966 38

COMPARISON OF THE CENSUS AND EXPENDITURES.— *Concluded.*

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.
Per capita cost per ward patient per week:					
Including permanent improvements..	\$13 16	\$12 78	\$13 32	\$14 44	\$15 01
Exclusive of permanent improvements,	13 16	12 78	13 32	14 30	14 62
Including permanent improvements, and deducting money paid to City Treasurer.....	10 30	10 10	10 46	11 28	11 62
Exclusive of permanent improvements, and deducting money paid to City Treasurer.....	10 30	10 10	10 46	11 13	11 22

The tables of disbursements in this report show the expenditures of the Hospital Department during the fiscal year February 1, 1916, to January 31, 1917, inclusive. Table No. 1 shows the expenditures, classified for the year. Table No. 2 shows the expenditures on food, ice and fuel. Table No. 3 shows the subdivisions of pay rolls for the year. Table No. 4 is a comparison of the census, expenditures and per capita costs for the last five years. Table No. 5 shows the comparative net cost per patient at the main hospital, including the South Department, for fourteen years.

The total expenditures during the fiscal year for Hospital Department, in the various branches, have been \$798,553.87, and the disbursements have been made as follows:

For Personal Service	\$355,873 94
Service Other than Personal	34,151 57
Equipment	59,986 39
Supplies	340,734 47
Materials	16,077 70
Special Items	729 80
Total	<u>\$798,553 87</u>

Table No. 5.

STATEMENT OF NET PER CAPITA COST PER PATIENT,
MAIN HOSPITAL, INCLUDING SOUTH DEPARTMENT,
FOR PAST FOURTEEN YEARS.

YEAR.	Cost of Maintenance.	Paid into City Treasury.	Number of Weeks' Board.	Net Cost to the City per Year.	Net Cost per Week per Patient.
1902.....	\$416,499 23	\$73,885 39	30,233	\$342,613 84	\$11 33
1903.....	421,224 62	71,262 81	32,910	349,961 81	10 63
1904.....	422,093 02	59,218 00	32,262	362,875 02	11 25
1905.....	410,840 24	100,796 40	31,250	310,043 84	9 92
1906.....	431,394 73	91,189 60	34,696	340,205 13	9 81
1907.....	428,302 71	116,605 12	36,095	311,697 59	8 64
1908.....	451,130 64	128,297 52	41,552	322,833 12	7 77
1909.....	428,521 00	131,359 81	35,399	297,161 19	8 39
1910.....	450,812 13	128,475 04	36,369	322,337 09	8 86
1911.....	466,591 79	115,330 32	37,564	351,261 47	9 35
1912.....	498,335 50	113,376 79	38,281	384,958 71	10 08
1913.....	526,464 67	114,149 03	41,448	412,315 64	9 95
1914.....	568,997 70	124,110 30	43,346	444,887 40	10 26
1915.....	626,781 '73	139,558 00	43,496	487,223 73	11 20

REVENUE FROM ALL SOURCES FOR THE YEAR FEBRUARY 1, 1916, TO JANUARY 31, 1917, INCLUSIVE.

	Hospital Proper.	South Depart- ment.	West Depart- ment.	Haymarket Square Relief Station.	East Boston Relief Station.	Conva- lent Home.	Totals.	Grand Totals.
Revenue, Account of Maintenance:								
Interest on Trust Funds.....	\$2,164 00							\$2,164 00
Sundry Revenue:								
Income from Paying Patients:								
Collected by hospital.....	107,766 41	\$5,708 89		\$1,085 68	\$798 22		\$115,359 20	
Collected by Board of Health for contagious cases.....		35,465 90					35,465 90	
Sale of Old Material:								150,825 10
X-ray plates.....	450 87						\$450 87	
Horses and stable equipment.....	361 95						361 95	
Books, paper and rubber.....	139 93						139 93	
Steam kettle.....		23 00					23 00	
Miscellaneous.....	260 32	16 85		2 25	1 77	\$7 48	288 67	1,264 42
Sale of bones and trimmings.....	1,777 93							1,777 93
Commission on automatic telephones.....	122 38							122 38
Damage to coupé.....	100 00							100 00
Rent of land for store.....			\$100 00					100 00
Interest on bank deposit.....	54 05							54 05
Birth fees.....	44 25							44 25
Sale of standing grass.....			40 00					40 00
Refund on expressage.....	10							10
Totals.....	\$113,242 19	\$41,214 64	\$140 00	\$1,087 93	\$799 99	\$7 48		\$156,492 23

The main hospital has four subdivisions, the hospital (wards) proper, Out-Patient Departments, the Pathological Department and the X-Ray Laboratory. The expenditures for the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station, the Convalescent Home, and the West Department (as yet unopened) are kept in a combined table.

The expenditures of the hospital in all its departments were for the care of 21,962 patients in the wards for 322,955 days, or 46,136 weeks' board, which makes the average weekly cost of \$15.01, or a daily cost of \$2.14 $\frac{3}{4}$ for patients of all classes. The cost of uncooked food supplies for all persons, including patients and the entire household in all departments of the hospital, was \$194,346.08. The average number of patients was 882.4, of officers and employees, including house and nursing staff, 707.4, or a total daily average of 1,589.8 persons. The number of weeks' board for all persons was 83,125 and the weekly cost per person for uncooked food supplies was \$2.34, or 33 $\frac{3}{4}$ cents per day.

If from the total operating expenses \$798,553.87 is deducted the increase in stock on hand, which is \$20,650, we find the cost of maintenance \$777,903.87. If we divide the amount by 526,269, the total number of days' board given ward patients plus the number of visits of out-patients, we obtain \$1.48 as the gross cost per day for all patients.

The total expenditures in the Hospital Department have been \$798,553.87, but the net cost to the city for maintaining it was only \$621,411.64.

The maximum number of patients in the hospital proper on any one day was 711, as against 662 in the previous year. The minimum number was 472, in comparison with 428 for the previous year. The daily average during the year was 588.5, and the average length of stay was 12 $\frac{1}{10}$ days.

There have been treated in the various Out-Patient Departments at the hospital proper 35,867 patients.

Other statistics may be found elsewhere, including the number of out-patients, number of their visits, rate of mortality, work of ambulances, census of days' board for all persons, the nativity of patients admitted and physical condition of patients when discharged.

The total number of deaths from February 1, 1916, to January 31, 1917, was 1,629. This does not include the statistics of the South Department, but only the main hospital.

Of the deaths, there occurred within

48 hours of admission	581 or $3\frac{3}{10}$ per cent.
Other deaths	1,048 or $5\frac{1}{10}$ per cent.
<hr/>	
Total	1,629 or $9\frac{2}{10}$ per cent.

the rate of mortality for the year ending January 31, 1917.

This percentage of deaths is for the *total number of patients treated* in the hospital. The deaths occurring within forty-eight hours of admission (581) were 35.67 per cent of the whole number of deaths (1,629).

During the year 17,770 patients were treated in the wards, 35,867 as out-patients, 355 at the Convalescent Home, 2,965 at the South Department; at the Haymarket Square Relief Station 529 were treated in the wards and 28,488 as out-patients, and at the East Boston Relief Station 343 were treated in the wards and 12,065 as out-patients, a total of 98,382 who have received the benefits of the hospital in all departments.

During the year 21,335 persons applied for admission at the main hospital. Of this number, 17,174 were admitted and 4,161 were rejected, the latter being 797 more than last year. The number rejected was 19 per cent of all persons applying, and the causes of rejection appear in the table of applicants not admitted, on page 40. Of the number applying, 125 either changed their minds or were admitted later; of these, 15 were received within three days after application and 9 admitted still later. There were 34 applicants rejected for want

of vacant beds, but of these 9 were admitted later. There were 3,614 of these applicants who could be treated more properly in the various out-patient services without the additional cost of receiving them in the wards. Admission was denied to 112 for lack of information that they were suitable cases; of these, 24 were received within three days after application and 7 were admitted later, and 83 were rejected as apparently incurable or unsuitable for treatment here. Various other causes of rejection appear in the tabulated form on page 40.

HAYMARKET SQUARE RELIEF STATION.

The following are the principal statistics of the Haymarket Square Relief Station for the year:

Number of patients remaining in Haymarket Square Relief Station January 31, 1916	8
Admitted from February 1, 1916, to January 31, 1917, inclusive	521
	<hr/>
Treated during the year	529
Discharged during the year 397	
Died during the year 125	
	<hr/>
	522
	<hr/>
Number of patients remaining in Haymarket Square Relief Station January 31, 1917	7
Number of out-patients treated	28,488
Largest number of out-patients treated on any one day	124
Number of major surgical operations	100
Number of deaths	125
Number of deaths following surgical operations	20
Number of deaths within twenty-four hours of admission	78
Number of patients accidentally injured admitted to the wards	408
Total number of accident cases treated in wards and out-patient departments	27,064
Number of days' treatment given patients in wards,	1,996
Largest number of ward patients on any one day	14
Smallest number of ward patients on any one day	1

THE BOSTON CITY HOSPITAL.

65

Average stay of ward patients in days	3.8
Daily average in wards	5.5
Number of ambulance calls	1,078
Number of ambulance trips for transfer of admitted patients to hospital proper	501
Miscellaneous ambulance trips	16
	<hr/>
	1,595
Number of patients transferred to hospital proper	789
Number of cases brought in by police ambulances and patrol wagons	1,924
Number of cases brought in by carriages and auto- mobiles	439
Total number of miles run by Haymarket Square Relief Station ambulances	3,947

EAST BOSTON RELIEF STATION.

The following are the principal statistics for the year:

Number of patients remaining in the East Boston Relief Station January 31, 1916	5
Admitted from February 1, 1916, to January 31, 1917, inclusive	338
	<hr/>
Treated during the year	343
Discharged during the year	309
Died during the year	31
	<hr/>
	340
Number of patients remaining in East Boston Relief Station January 31, 1917	3
Number of out-patients treated	12,065
Number of visits of out-patients	28,767
Largest number of out-patients on any one day	145
Number of major surgical operations	18
Number of deaths	31
Number of deaths within twenty-four hours of admis- sion	15
Number of days' treatment given patients in wards	997
Largest number of ward patients on any one day	9
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	2.9
Daily average in wards	2.7
Number of ambulance trips for transfer of admitted patients to hospital proper	112

Number of trips by East Boston Relief Station ambulance	205
Number of patients transferred to hospital proper	142
Number of patients brought in by police ambulances, patrol wagons, carriages, automobiles, etc.	387
Number of patients carried by East Boston Relief Station ambulance	167
Number of cases accidentally injured admitted to wards	233

CONVALESCENT HOME.

The statistics of the Convalescent Home, which has just completed its twenty-sixth year, are as follows:

Number of patients in Home January 31, 1916	27
Admitted during the year	328
Total treated during the year	355
Discharged during the year	332
Number remaining in Home January 31, 1917	23
Largest number of patients on any one day	33
Smallest number of patients on any one day	9
Daily average number of patients	20.2
Average stay of patients in days	20.8

GENERAL REPAIRS.

Beside their usual work of repairs on furniture and buildings, the hospital carpenters have built operating tables and wall cases for operating floor and Out-Patient Department, altered a closet for the social service room, remodeled shelter for gate attendant, changed floor, partitions and shelves for X-Ray Department, built new cages for guinea pigs, made trunk racks for Nurses' Home and cut windows in coal pocket. At the Southampton wards they altered booths for the temporary use of patients. At the Haymarket Square Relief Station they made changes for X-ray room, repaired stalls in stable and altered stable doors. At East Boston Relief Station they built storm porch at entrance.

The hospital painters have painted and enameled rooms for maternity wards, painted private rooms in various wards, set many lights of glass and lettered many signs. They have stained and shellacked seats in the amphitheater, and painted autopsy and other rooms in the Pathological Laboratory. At the South Department they painted bakery and diet kitchen, also painted many rooms in Nurses' Home. At Haymarket Square Relief Station they painted walls and ceilings in the X-ray room. At East Boston Relief Station they painted and set glass in storm porch.

MEDICAL LIBRARY.

Number of books in library February 1, 1916 . . .	3,280
Number of books added to library from February 1, 1916, to January 31, 1917:	
By purchase	31
By donation	36
	—
	67
Number of books in library January 31, 1917 . . .	<u>3,347</u>

For all books received during the year index cards have been written and filed.

There have been received during the year 174 medical monographs and reprints, 154 hospital and health reports and 533 periodicals.

Twenty-four thousand three hundred eighty-three index cards of clinical records have been written and filed during the year.

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses has now completed its thirty-eighth year. The changes in the nursing staff during the year have been as follows:

SUMMARY FROM FEBRUARY 1, 1916, TO JANUARY 31, 1917.	
February 1, 1916, the number of nurses was . . .	<u>232</u>

During the year nurses have left as follows:

Supervisors resigned	3	
Head nurses resigned	18	
Head nurses dropped from roll	2	
Graduates dropped after obstetric course	3	
Pupils graduated	47	
Pupils dropped from roll	30	
Probationers dropped from roll	29	
Pupils from affiliated schools have completed courses as follows:		
Boston State Hospital	14	
Taunton State Hospital	14	
New England Hospital	12	
Leonard Morse Hospital	5	
Worcester Memorial Hospital	6	
	—	51
Affiliated pupils who withdrew	4	
Graduate specials who withdrew	13	
	—	
Total graduations and resignations		<u>200</u>
Number of nurses remaining	32	
Graduates retained	11	
Graduates readmitted	8	
Graduates readmitted for obstetrics	4	
Pupils readmitted	20	
Probationers	79	
Probationer readmitted	1	
Pupils from affiliated schools admitted as follows:		
Boston State Hospital	14	
Taunton State Hospital	28	
New England Hospital	14	
Leonard Morse Hospital	6	
Worcester Memorial Hospital	7	
Goddard Hospital	1	
	—	70
Graduate special nurses	23	
	—	
Total number remaining January 31, 1917		<u>248</u>

NURSES CONNECTED WITH THE SCHOOL JANUARY
31, 1917.

Main Hospital:

Superintendent of nurses	1	
Assistant superintendents of nurses	3	
Instructors	3	
Head nurses	32	
Senior pupils (second and third years)	77	
Probationers	20	
Affiliated pupils	31	
Senior pupils at obstetrical hospitals	10	
Graduate special nurses	22	
	—	199

South Department:

Assistant superintendent of nurses	1	
Supervisors of nurses	2	
Head nurses	4	
Special nurse	1	
Senior pupils (second and third years)	26	
Affiliated pupils	3	
	—	37

Haymarket Square Relief Station:

Matron	1	
Head nurse	1	
Graduate nurse	1	
Senior pupils	2	
Affiliated pupil	1	
	—	6

East Boston Relief Station:

Matron	1	
Senior pupil	1	
Affiliated pupils	2	
	—	4

Convalescent Home:

Matron	1	
Head nurse	1	
	—	2

Total		<u>248</u>
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Forty-seven pupils have graduated during the year and seventy-eight probationers have been admitted. Thirty-four pupils have completed obstetrical training

at the Boston Lying-in Hospital and the New England Hospital and ten pupils are now taking the course. Seven graduate nurses have completed the obstetrical course in our new maternity ward. Seven pupils have taken the optional course at the Boston State Hospital.

Fifty-one pupils from affiliated schools have completed courses of from three to six months.

The Superintendent of Nurses has held seventy classes in ethics of nursing and in the history of nursing. Miss Morley has conducted 311 classes for pupils in the class room and in the laboratory. Miss Kingston has held twenty-four classes in obstetrical nursing. Miss Daly has conducted forty-four classes in nursing in contagious diseases. Miss Delamere and Miss Dwyer have held fifty-one classes in operating room technique, and Mrs. Davie has held daily demonstrations and drills in the practice room and class instruction in the class room.

Miss Lee, the dietitian, has conducted twenty cooking classes for probationers and fifty-five cooking classes and twelve classes in advanced dietetics for pupils.

Fifteen pupils have had practical experience in the diet kitchen. Mrs. Gulli J. Callowhill has given fifty-eight periods in massage.

The school has received thirty-four lectures from members of the medical, surgical, neurological, dermatological, gynæcological and pathological staffs. The senior pupils have attended eleven surgical clinics conducted by Doctor Leavitt and four by Doctor Clute. The obstetrical staff has given twenty-three lectures in obstetrics. The regular medical clinics were conducted by Doctor Robey.

During the year the laboratory work in the Medical Out-Patient Department has been carried on by the pupil nurses and this year a pupil nurse has been assigned to the X-Ray Department.

During the epidemic of poliomyelitis forty graduate nurses were temporarily employed at the South Department.

Under the direction of the Red Cross Society the nursing personnel of the Boston City Hospital Base Hospital Unit has been almost completed and practical instruction has been given in the wards to fourteen of the twenty-five nurses' aids.

During the year ten of our enrolled Red Cross nurses have been appointed by the Central Committee on Red Cross Nursing Service as Red Cross instructors and are teaching classes in elementary hygiene and home nursing.

The eighth public graduating exercises of the Training School for Nurses were held in the Surgical Out-Patient Department May 28, 1916. Addresses were made by his Honor Mayor Curley and by Doctor Dowling. The diplomas were presented by Mayor Curley. After the exercises a reception was held in the Vose House.

THE TRAINING SCHOOL FOR MALE NURSES.

September 1, 1916, the Training School for Male Nurses came under the direction of the Training School Department. Since that time the classes have been carried on by the regular Training School instructors. The curriculum includes practical nursing, materia medica, anatomy and physiology, dietetics, surgical clinics and laboratory work in bacteriology, urine analysis and chemistry. Weekly lectures are attended and at the South Department a course in nursing in contagious diseases is given.

During the year fifteen pupils have completed the course of two years and two affiliated pupils from Butler Hospital have completed a course of one year.

January 31, 1917, there were seventy-five men in the school.

CHANGES IN THE EXECUTIVE DEPARTMENT.

John M. Thompson, M. D., Third Executive Assistant resigned in May. George E. Allen, M. D., Night Executive Assistant, was then appointed Third Executive Assistant, and Samuel Cline, M. D., was appointed

Night Executive Assistant. Doctor Cline resigned in January, 1917, John A. Foley, M. D., being appointed his successor.

William F. Dolan, M. D., Resident Surgeon for the Surgical Floor, resigned in July, Pierce H. Leavitt, M. D., being appointed to the position. Doctor Leavitt resigned in January, and Joseph H. Shortell, M. D., was appointed Resident Surgeon for the Surgical Floor.

In July, George S. Graham, M. D., Second Assistant Pathologist, resigned. The following promotions were then made: Edgar M. Medlar, M. D., from the position of Research Assistant in Pathology to that of Second Assistant Pathologist; Leroy U. Gardner, M. D., from the position of First Assistant in Pathology to that of Research Assistant in Pathology; Ward H. Cook, M. D., from the position of Second Assistant in Pathology to that of First Assistant in Pathology. Frederick Parker, Jr., M. D., was then appointed Second Assistant in Pathology. Doctor Parker left in December and Frank B. Berry, M. D., was appointed to the position for six months beginning January 1, 1917.

At the South Department, Robert B. Hunt, M. D., Assistant Physician, resigned in December and Hiram H. Amiral, M. D., was appointed Assistant Physician.

The resignation of William J. Brickley, M. D., Resident Surgeon at the Haymarket Square Relief Station, taking effect January 1, 1917, was accepted, the secretary conveying to him expressions of appreciation of the trustees for his good work at the hospital. Somers Fraser, M. D., Assistant Resident Surgeon, resigned in October. John G. Breslin, M. D., Assistant Resident Surgeon at East Boston Relief Station, was appointed Acting Resident Surgeon at Haymarket Square Relief Station. Bernard F. Devine, M. D., was appointed Assistant Resident Surgeon at East Boston Relief Station and later was transferred to Haymarket Square Relief Station as Acting Assistant Resident Surgeon. Carl B. Hudson, M. D., was appointed Acting Assistant Resident Surgeon at East Boston Relief Station.

MEDICAL AND SURGICAL STATISTICS.

The medical and surgical statistics previously incorporated in the annual reports have been omitted from this report. These statistics have been compiled under the nomenclature now in use in the Massachusetts General, Peter Bent Brigham and Carney Hospitals, and anyone interested in the same may obtain a copy by applying to the Superintendent.

In presenting the fifty-third annual report I wish to express to the trustees, the staff and the executive force my appreciation of their splendid support during the past year.

JOHN J. DOWLING,
Superintendent and Medical Director.

BEQUESTS.

FUNDS WITH INTEREST ONLY AVAILABLE.

<i>Goodnow Fund.</i> — For the support of free beds	\$26,000 00
<i>Nichols Fund.</i> — For the establishment and endowment of a City Hospital	2,000 00
<i>Norcross Fund.</i> — For the benefit of patients leaving the hospital poor and destitute of proper clothing	2,000 00
<i>Ball Fund.</i> — For the same purpose and under the same restrictions as the Norcross Fund	1,000 00
<i>Goodnow Library Fund.</i> — For replenishing the library of the hospital with books and pamphlets suitable for the reading of the patients during convalescence	1,000 00
<i>Shaw Fund.</i> — For the purchase of flowers and fruit for the use and comfort of the patients in the hospital	2,000 00
<i>Perkins Fund.</i> — For books for the Medical Library, and for the purchase of artificial limbs and surgical appliances for the use and relief of patients leaving the hospital	7,500 00
<i>Cheever Fund.</i> — To purchase and present to each house surgeon when his service expires a pocket case of surgical instruments, as a gift from Dr. David W. Cheever	3,500 00
<i>Charles P. Hemenway Fund.</i> — For a free bed, to be known as the Charles P. Hemenway Memorial Bed	5,000 00
<i>Herbert L. Burrell Ether Prize Fund.</i> — For a money prize to be given to the house officer who administers ether or other anæsthetic in the most skillful and humane manner	1,000 00
<i>Silas Durkee Fund.</i> — “For the benefit of the Boston City Hospital”	15,050 00
<i>Daniel S. Ford Fund.</i> — “For the benefit of the Boston City Hospital”	6,000 00
<i>Carried forward</i>	\$72,050 00

<i>Brought forward</i>	\$72,050 00
<i>Carter Fund.</i> —For books for the benefit of the Training School for Nurses	2,000 00
<i>Hettie Lang Shuman Memorial Library Fund.</i> — To be expended in perpetuity by the trustees for new books for the use of hospital patients and for the replacing of volumes that have become damaged, lost or destroyed	2,000 00
<i>William T. Bolton Fund.</i> —For the benefit of the Boston City Hospital	500 00
<i>Patrick A. Collins Memorial Library Fund.</i> —For the purchase of new books for the use of hos- pital patients and for the replacing of those that have become damaged, lost or destroyed,	500 00
<i>Mehitable C. C. Wilson Fund.</i> —For the benefit of the Medical Library	500 00
<i>Nurses' Fund.</i> —To be used under direction of superintendent and staff for employment of special nurses	10,000 00
<i>Dr. George S. Hyde Fund.</i> —For the support of a free bed	5,000 00
Total	<u>\$92,550 00</u>

FUNDS WITH BOTH PRINCIPAL AND INTEREST AVAILABLE.

<i>Wyman Building Fund.</i> —Rest and residue of the Thomas T. Wyman estate. Balance on hand January 31, 1917	\$5 45
<i>Patrick A. Collins Memorial Library Fund.</i> —To purchase bookcases and books for the use of hospital patients. Balance on hand January 31, 1917	427 38
<i>Francis Bartlett Bequest.</i> —To be used to purchase radium and X-ray apparatus. Balance on hand January 31, 1917	117 24
Total	<u>\$550 07</u>

THE BOSTON CITY HOSPITAL TRAINING SCHOOL FOR NURSES.

The trustees of the Boston City Hospital in 1878 established a Training School for Nurses, the fourth organized in the United States, in order to give to women desirous of becoming professional nurses a systematic course of training and practice.

The Training School is controlled by the trustees of the hospital, like all other departments of the hospital service. The Superintendent of the Hospital has the general supervision of all matters relating to the school, its course of work and study, lectures and discipline. The Superintendent of Nurses has the immediate charge of all the nursing in the hospital, of all persons employed in the wards, and also the instruction and management of the nurses in the Training School. All female nurses in the hospital must be connected with the school.

The hospital in all its departments contains 1,088 beds for patients as follows:

Main Hospital	680
South Department for Infectious Diseases	340
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
Total	<u>1,088</u>

The number and variety of cases in each department afford ample material for observation and instruction. The course requires three years, and includes general medical and surgical nursing, together with ophthalmic, aural and gynæcological nursing, also the nursing of children, and infectious diseases and of emergency surgical work. There is a maternity ward connected

with the hospital, and a course in maternity nursing has been provided at this hospital as well as at maternity hospitals elsewhere, without extra cost to the nurse.

The most desirable age for candidates is from twenty-one to thirty-five years. They must be of sound health, and should send with their application a certificate from a physician certifying to the fact. They should also send a brief personal history, and give the names and addresses of three responsible persons, not of their own kin, preferably their last employer, if any, or business men of their acquaintance, who know of their good character and capabilities. Upon the recommendation of the Superintendent of the Hospital and Superintendent of Nurses they will be received for three months on probation. The fitness of candidates for the training and work, and the propriety of retaining or dismissing them, will be determined by the authorities in charge of the school, under the direction of the trustees. At least two years of high school work or its equivalent is necessary. An entrance examination, held every Tuesday morning at ten o'clock, except holidays, is given to all candidates before the term of probation. The examination is in simple arithmetic, English composition and writing from dictation, etc., and is in no sense so severe as to prevent anyone who is capable of undertaking the work of a trained nurse from so doing. The Superintendent of Nurses will have a personal interview with candidates for the school on Tuesdays from ten to twelve o'clock.

At the end of the second month candidates, if considered satisfactory, are permitted to wear the cap and enter upon the regular course of training, but such candidates are not permitted to join the school formally until the end of the third month, when, if accepted, they sign an agreement to complete the prescribed course of three years and to conform to all rules. At the end of the first six months the record and work of each pupil are carefully scrutinized as to her fitness to make a good nurse, and the right is reserved by the authorities of the

hospital to terminate then, or at any time, the connection of any pupil or nurse with the school for inefficiency, misconduct, generally unsatisfactory record, or for any other reason which may be deemed sufficient.

The nurses in the Training School (including probationers) reside at the three nurses' homes connected with the hospital. These houses are attractive and homelike, and have the best of conditions necessary to good health and personal hygiene, while recreation and amusement, necessary to a wholesome life, have been considered in the music room, library and reception rooms provided.

The Superintendent of Nurses has the immediate charge of the Training School, under the authority of the Superintendent of the Hospital and of the trustees, and the nurses are subject to the rules of the hospital, like any other service.

The instruction includes the general care of the sick, the making of beds, changing bed and body linen, managing of helpless patients in bed, etc., giving baths, keeping patients warm or cool, prevention or dressing of bed sores, and proper management of the patient under various conditions, with different diseases or injuries; the making and applying of bandages and rollers, preparation of splints, application and management of surgical apparatus, applying of fomentations and poultices, the dressing of burns, ulcers and wounds, and other minor dressings, cupping, leeching, and subsequent treatment, the administering of enemata, and the use of the female catheter.

Nurses are taught how to act in the various emergencies occurring in hospital and private nursing, as well as in the accidents of ordinary life. They are also given lessons in massage by a professional instructor. There is a systematic course of training in cookery for the sick, the serving of food and delicacies in the proper manner, and the feeding of helpless patients, or those who resist food.

Instruction is also given in the best practical methods

of supplying fresh air, or warming and ventilating sick rooms in a proper manner, and the proper care of sick rooms for the best good and comfort of the patient; in keeping all utensils and appliances perfectly clean and disinfected; in making accurate observations of the pulse, temperature, respiration, expectorations, the secretions, state of the skin, and eruptions; of mental condition, as delirium, stupor, shock, etc., of the condition as to sleep, appetite, effects of diet or of stimulants and medicines; the behavior of wounds and the after treatment in surgical operations; and in the managing of convalescents. Nurses are taught the administering of medicines and the application of external remedies, how to take notes on cases, the making up of the nurse's record, and the reports to the attending doctor.

The three years' course of training includes a preparatory course of three months under a special instructor, followed by a fixed course of instruction from manuals and text-books, mainly given by the Superintendent of Nurses, instructors, dietitian and graduate head nurses. Lectures and demonstrations, chiefly upon practical points, are given at stated times by the medical and surgical staff of the hospital. While the instruction by the manuals, text-books, lectures, demonstrations, quizzes and models is considerable, the main reliance is upon accurate daily drill in the wards, operating rooms, and other departments of the hospital. Examinations, both oral and written, are held from time to time by the authorities of the school, and nurses will not be graduated unless they attain, on critical marking, at least seventy per cent.

The pupils are employed as assistant nurses in the wards, operating rooms, out-patient departments of the hospital and the two Relief Stations. They are given training in medical, in surgical, in contagious and gynæcological wards. Maternity training is provided. No class recitations or lectures are given between July 1 and October 1 except to the probation classes.

Probationers are not paid during their first two months

but for the remaining ten months of the first year they receive \$10 a month, for the second year \$12.50 a month, and for the third year \$16.67 a month while on duty in the hospital, to pay for the expenses of their uniform, personal clothing, and other minor requirements. While on duty in a maternity hospital they will receive the allowance provided by the hospital to which they are assigned. This sum is in nowise intended as wages, it being considered that their education during this time is a full equivalent for their services. When the term of three years is completed the nurses receive, if they pass all the examinations and are otherwise satisfactory, a diploma certifying to the regular course of training and practice, and are then permitted to wear the graduate's badge of the school.

The majority of graduates engage in private nursing, but some are invited to remain in the service of the hospital as head nurses, with opportunities of promotion here or in other hospitals. Graduate head nurses who prefer to remain in hospital work, or return after a term of private nursing, are given post-graduate instructions in ward management, hospital housekeeping and minor administration, fitting them to fill positions of trust in hospitals or other institutions.

The school year has no fixed date, but accepted candidates are, as a rule, received in class beginning every three months. Those desiring to enter with less delay can sometimes anticipate a fixed date by placing themselves on the emergency list. When coming to the hospital they should bring with them the following articles: Three gingham or calico dresses, made plainly; dresses to be made high neck, long sleeves; eight large white aprons, made of bleached cotton, two yards wide, meeting in the back, with bibs, without straps, plain at the top and gathered slightly at the bottom, two pearl studs on the band, two inches wide, with hem at bottom five inches in depth, and two inches from the bottom of the dress; two bags for soiled clothes; one pair of scissors, a pinball, and a plain napkin ring with nurse's name; a good supply of plain underclothing — every

article to be distinctly marked with pen and indelible ink with the owner's name. Twenty-one pieces are allowed for the laundry each week.

Nurses must bring suitable outer garments for stormy weather, and they are required to wear boots that will be purchased on prescription of our orthopedic surgeon, after coming to the hospital. If the teeth are out of order in any way, they must receive attention before coming for the probationary month. Nurses are required to wear the training school uniform after they join the school. Material for dresses will be sold at cost price; caps are furnished at a nominal price. Probationers should come prepared, on acceptance, to expend about \$20 for uniforms, books and other needful expenses.

Hours of duty for day nurses will vary from six to twelve hours between the hours of 7 a. m. and 8 p. m.; for night nurses, from 8 p. m. to 7 a. m. No nurse is required to do both day and night duty on the same day, except in rare emergencies. Each nurse on day duty is allowed two hours for rest and recreation; one half day, after 1.30 p. m., each week, and four hours on Sunday. Two weeks' vacation with pay is allowed each year, and one week without pay as leave of absence during the third year. If nurses are sick they are cared for in the hospital, but pay is stopped, except for illness or injury received in the line of duty. Pupils may be expected to have a percentage of any considerable time lost by illness or absence added to their three years, at the discretion of the management. Nurses on night duty are required to be in bed from 9 a. m. until 4 p. m. Nurses may be called upon for seven months' regular night duty during the three years' training, besides "special cases" to a limited number.

COURSE OF INSTRUCTION.

I. PROBATIONER'S COURSE.

The first week the probation class meets in the practice room daily for practical instruction in the making of beds, including the use of bed rests, cradles, etc.

The care of rooms, sweeping and dusting.

Care of set bowls, wall stands and utensils.

Care of linen rooms, the folding of linen.

The use of hot and cold applications, including the making of fomentations and poultices.

The care of rubber goods.

The making of surgical supplies, pads, sponges, tampons, etc.

The use of slings, binders and supports.

During this time the class is instructed in the use of antiseptics, disinfectants and deodorants and the preparation of solutions.

Tables of weights and measures.

The use of abbreviations and symbols.

The principles of ventilation.

The temperature of the body. Heat production and radiation.

The use of the clinical thermometer and charts.

The giving of baths, care of the back, mouth, etc.

From the seventh (7th) to the tenth (10th) day allowed to go to the wards, make beds, sweep, dust and fold linen (hours from 7 to 10.30 a. m.).

The tenth (10th) day assigned to wards for regular duty, and during the remaining weeks of the probation course three hours each day will be devoted to class and practice room work, with one additional hour for recreation.

Total Hours of Study and Ward Work in Three Months'

Probation.

Anatomy, Physiology and Hygiene	66 hours.
Practical Nursing and Practice Room	126 "
Materia Medica and Nursing Ethics	24 "
Dietetics	12 "
Ward Work	481 "

I. FIRST YEAR.

Contagious Nursing	12 recitations.
Junior Nurse. Brown	12 "
Lectures by Physicians and Surgeons	37

Ward Clinics: Medical, Surgical, Gynæcological and Infectious.

Laboratory Work in Chemistry, Urinalysis and Bacteriology.

II. SECOND YEAR.

Materia Medica 12 recitations.

Special Instruction in Bacteriology. 6 exercises.

Instruction in Practical Asepsis in Operating Rooms.

Massage 6 recitations.

Special Lectures in Obstetrics 6 “

Obstetrical Course (4 months).

Optional Course (3 months) at Boston State Hospital.

III. THIRD YEAR.

Invalid Cooking 12 recitations.

Medical and Surgical Clinical Teaching by Paid Instructors.

General Review of Course 12 “

Work in Operating Rooms, Out-Patient Departments, Relief Stations, Contagious Wards and Housekeeping Department.

Diet Kitchen One to two months.

The prospectus is subject to change.

An excellent reference library is open to nurses for more extended reading upon subjects under consideration.

HOUSE RULES.

WITH RULES FOR ADMISSION, GOVERNMENT AND DIS-
CHARGE OF PATIENTS; ALSO RULES FOR VISITORS.

HOUSE RULES.

The doors and gates of the hospital will be closed at ten o'clock in the evening, at which time all inmates, excepting head nurses, who are permitted to remain out until twelve o'clock midnight, shall be quiet, and all not on duty shall be in their rooms, unless otherwise specifically permitted.

All officers, nurses and employees of the hospital, when going and coming to and from the hospital, shall enter and go out by the entrance office, and by no other entrance. Such officers and employees as are required shall use the time register and method of booking that the hospital rules require.

A record shall be kept of all persons entering the hospital between the hours of 10 o'clock in the evening and 7.30 o'clock in the morning.

No employee shall be absent from the hospital except when permitted by special rules or by the Superintendent.

No officer, nurse, male nurse or other employee shall, directly or indirectly, receive money or other gifts from or in behalf of patients, except with the approval of the Superintendent.

The use of tobacco, wine and intoxicating liquors is prohibited within the hospital, unless prescribed by the physicians or surgeons.

All profane and improper language, loud talking and incivility are prohibited.

All employees shall observe such further rules and directions for their conduct as may from time to time be established.

ADMISSION OF PATIENTS.

Application for admission may be made at the hospital on each day of the week (Sundays excepted), between nine o'clock a. m. and five o'clock p. m. Whenever able, a patient shall apply in person for admission. When not able to apply in person, a patient may be admitted on application made by his physician, or upon a visit to his residence by the admitting physician.

No person having acute venereal disease or alcoholism shall be admitted unless his condition is urgent, except as a paying patient.

No person shall be admitted to the hospital whose case is judged to be incurable, unless there be urgent symptoms which are deemed capable of being relieved.

Persons with state settlements, unless they stand in need of immediate relief, are to be referred to the state hospitals.

Patients settled in other cities and towns in Massachusetts are to be referred to their own city or town for treatment, Boston cases being given the preference.

Unsettled cases, if resident in Boston, may be admitted as paying patients.

Patients may be admitted to the privileges of the hospital at such rate of board as the trustees may from time to time by vote determine, payment for such cases being secured by the friends of the patients or by the authorities of the city or town in which the patient is legally settled.

Whenever, in the opinion of the trustees, the circumstances of the patient will warrant it, the whole or a part of the board will be paid.

If separate apartments or articles not usually furnished at the hospital are furnished, such payment shall be made therefor as the trustees shall deem reasonable.

Persons non-resident and non-settled in Boston are to be admitted only as private patients, *i. e.*, paying patients in private rooms.

All accident or emergency cases shall be received at all hours, night or day, irrespective of settlement.

In all cases where any question arises as to the treatment of newly admitted or other patients, it shall be the duty of the house officer to consult with the executive on duty in regard to such treatment until the arrival of his visiting physician or surgeon.

If in the judgment of the admitting physician the condition of a newly admitted patient is sufficiently urgent to demand the attention of the visiting staff, he shall so notify the house officer and shall direct him to call his visiting physician or surgeon.

In case alcohol is administered to a patient before or after placing him in the ambulance, or by any other than hospital employees, before the arrival of the ambulance, the same is to be promptly reported to the Admitting Physician, and a record of the fact made in the clinical record book. This rule covers cases brought by conveyances other than hospital ambulances.

GOVERNMENT OF PATIENTS.

Patients shall implicitly observe all the rules of the hospital.

Patients shall be in their proper places in the wards during the visits of the physicians and surgeons, and always before 7.30 o'clock in the evening, unless specially excused by the Superintendent.

Such free patients as are able shall assist in nursing and perform such other services as may be reasonably required of them.

No patient shall leave the hospital grounds without a pass from the Superintendent, nor leave his ward without the consent of the nurse in charge.

No patient shall purchase, or cause to be purchased for him, any article of food whatsoever, or any other article, without the consent of the Superintendent.

Profane and obscene language, loud talking and incivility are prohibited.

Patients may be visited by clergymen of their own

selection, and any wish for the performance of a particular religious rite shall be granted when practicable.

Complaints, for whatever cause, may be made to the Superintendent, and whenever requested shall be by him reported to the trustees.

DISCHARGE OF PATIENTS.

Patients shall be discharged by the Superintendent.

Patients discharged on the recommendation of the visiting physicians or surgeons shall be provided with a certificate stating their condition at the time of discharge, whether cured, relieved or not relieved, which certificate shall be signed by the Superintendent.

Whenever a patient is removed from the hospital without the approval of the Superintendent, a written statement to that effect shall be required from any person assuming the responsibility of the removal.

VISITORS.

No person shall visit any part of the premises except on business, or at such times as may be fixed for the reception of visitors, without the permission of the Superintendent or of some one of the trustees.

Daily, from 2 to 3 o'clock in the afternoon, friends may be permitted to visit patients, though no patient shall receive more than two visitors at that hour; and from 6 to 6.30 o'clock on each week day friends may be permitted to visit patients, though no patient shall receive more than one visitor at that hour. In all cases, however, the trustees and the Superintendent may exercise discretionary powers as to excluding or admitting visitors.

When visitors are admitted outside of the regular visiting hours they shall not be permitted to remain more than half an hour, except a special permission to remain for further time is granted.

All visitors shall leave the hospital when the bell rings at the expiration of the visiting hour.

No visitor shall take any meal in the hospital, or pass the night therein, without permission of the Superintendent or one of the trustees.

No visitor shall be allowed to give any article of food or drink to a patient, unless by permission of the nurse; and any article sent to a patient shall be left at the entrance office.

SPECIAL RULES FOR THE GOVERNMENT OF THE SOUTH DEPARTMENT.

The department of the Boston City Hospital located on the westerly side of Massachusetts avenue shall be designated as the South Department of the Boston City Hospital. It shall receive patients who require treatment for diphtheria, scarlet fever, measles, whooping cough, and for other infectious diseases as may be determined from time to time by the trustees.

The Superintendent and Medical Director of the Hospital shall, under the direction of the trustees, have the general control and management of this department in the same manner as of other departments of the hospital.

The rules of the hospital shall, so far as applicable, and except as hereinafter provided, apply to the various officers and employees and to the conduct and management of this department.

SPECIAL RULES FOR THE GOVERNMENT OF THE HAYMARKET SQUARE AND THE EAST BOSTON RELIEF STATIONS.

The Boston City Hospital Relief Stations are established not as hospitals, but as departments of the Boston City Hospital for temporary relief, and the rules

and methods prevailing now in the hospital shall, so far as applicable, and not inconsistent with special rules, apply to the Relief Stations.

The stations shall afford temporary relief in all classes of accident and disease. They shall be open at all hours for patients requiring treatment or attention. Patients requiring ward treatment, whether received at the stations or taken up in ambulances, shall, so far as is consistent with their welfare, be forthwith transferred or carried to the hospital for extended treatment, but ward accommodations shall be afforded patients whose condition is such that they cannot properly be transferred. Patients may, however, if it is deemed desirable, be transferred by the ambulances to other hospitals or to their homes. First treatment may be afforded at the stations, although the applicants are not such as require ward treatment.

The Superintendent of the Hospital shall have the general administration, management and control of the stations, the same as of other departments of the hospital.

The Superintendent shall, from time to time, as may be necessary for each station, nominate for confirmation by the trustees a Resident Surgeon and one or more Assistant Resident Surgeons, and shall appoint and employ or detail for service in each department, subject to the approval of the trustees or of the proper committees, a Matron, a Supervisor, nurses, male nurses and such other minor employees as may be required for the proper conduct of the station, who shall be subject to his supervision.

The various officers and employees of the stations shall perform such duties other than those specified as may be required by the trustees or the Superintendent, according to the nature of their respective duties. The Resident Surgeons, the Matrons, Supervisors and such other officers as may be so required shall reside at the stations.

PATIENTS.

Alcoholic and insane patients shall not be received unless there is surgical or medical complication making hospital treatment absolutely necessary.

No patient, after being admitted to the wards, shall leave the station until his discharge without a pass from the proper officer, nor shall he visit other parts of the station without permission.

Ward patients shall be discharged by the Superintendent or Resident Surgeon.

AMBULANCE SERVICE AT THE HAYMARKET SQUARE
RELIEF STATION.

The ambulance service of the station shall be under the direct control of the Resident Surgeon, and shall coöperate with that of the hospital, with which it shall form one general system. Ambulances shall, in response to calls, be dispatched from the station or the hospital as the exigency may require. The utmost dispatch shall be exercised in the ambulance service, so far as is consistent with a regard for the welfare of the patient and the interest of the public.

Ambulances shall in general be sent from the station or the hospital at least upon a general alarm to all fires occurring in the city proper and in such further districts as may be determined upon.

An ambulance shall be held during the hours of the day in complete readiness to make immediate response to calls, and shall be kept in condition to make prompt response to calls at any time of the night.

A house officer shall accompany the ambulance, shall direct its course and shall have direction of the care and treatment of the patient until received at his destination.

The foreman of the ambulance service at the hospital station shall visit and inspect the Ambulance Department of the station from time to time, but the immediate carrying out of directions shall be under the assistant foreman at the station.

AMBULANCE SERVICE AT THE EAST BOSTON RELIEF STATION.

The rules and methods prevailing in the Haymarket Square Relief Station ambulance service shall, so far as applicable, be effective in the East Boston Relief Station ambulance service.

SPECIAL RULES FOR THE GOVERNMENT OF THE CONVALESCENT HOME.

The department of the Boston City Hospital located on Dorchester avenue, in Dorchester, shall be known as the Convalescent Home, and shall receive such patients recovering from acute diseases as shall be transferred to it from the main hospital for treatment during convalescence.

The Superintendent of the Hospital shall, under the direction of the trustees, have the control and management of the Convalescent Home in the same manner as of other departments of the hospital.

The Superintendent shall appoint, subject to the approval of the trustees, a Matron, and shall employ, under their direction, such further assistants as may be necessary for the proper conduct and service of the home.

The Matron, under the direction of the Superintendent, shall have the immediate charge of the home and the control of all nurses and other employees and patients. She shall reside at the home.

VISITORS.

Friends may be permitted to visit patients daily between three and four o'clock in the afternoon. In all cases the trustees, Superintendent and Matron may exercise discretionary powers as to excluding or admitting visitors.

Visitors shall leave the home and grounds at the expiration of the visiting hour, and shall visit no part of the home or grounds other than the reception room, except by permission from the proper authority.

No person shall give any article of food or drink to a patient unless by permission of the Matron.

